

Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services



Solutions

Relative dielectric constant ϵ_r
(dk value) of liquids and solid
materials

Imprint

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Introduction to the manual of dielectric values

The relative dielectric constant (the dk-value) of liquids and bulk solid materials can – next to other influencing factors – be decisive when selecting a suitable technology for level measurement: This is where competent advice is required, but what distinguishes a competent partner? It is competence in product development, experience in the application, correct consultation and reliable service which distinguishes a reliable partner for process control technology.

In this booklet, Endress+Hauser endeavours to provide you with a listing of important substances which are commonly used in industry. We realise of course that such a listing is never complete in its scope. If you have the measured dielectric constant value for a product which is not in the book, we ask that you send us this value (the address can be found under the impressum). This will enable us to update the information in the next edition.

The reader can look for his product in two ways – either by looking for the trade name or the nomenclature (IUPAC). The dielectric constant values are listed with two separate measurement frequencies: at 1 MHz and at 100 kHz. Please understand the values in the book as standard values for individual measuring processes, as these are not absolute values. Should you find the measured value for your product at another frequency then this frequency can be considered the standard value. The next pages list the following measuring principles: “capacitive level measurement” and “Time Of Flight principles”. The dielectric constant is important for the correct functioning in these measurements.

The publisher

Dielectric characteristics

The dielectric constant ϵ

The dielectric constant of an insulating material is the result of the dielectric number ϵ_r and the dielectric constant ϵ_0 in a vacuum.

$$\epsilon = \epsilon_r \epsilon_0$$

$$\epsilon_0 = 0,08854 \text{ pF /cm} = 8,85419 \cdot 10^{-12} \text{ F / m}$$

The dielectric number ϵ_r

The dielectric number of an insulating material is the relationship of the capacitance C_x of a capacitor where the area between the electrodes is completely and exclusively filled with the insulating material and the capacitance C_0 of the electrode alignment in a vacuum.

The following formula applies:

$$\epsilon_r = C_x / C_0$$

The dielectric number is a measure for the polarisation power of an insulating material.

Measuring principle

The dielectric characteristics are usually determined by a change in capacitance using special capacitors, whereby the different materials to be investigated are used as dielectricum.

The test body is aligned as dielectricum between two electrodes fitted closely to the surface of the material. The dielectric number is calculated on hand of the measured capacitance within the electrode alignment and its geometric dimensions.

Level measurement with capacitive probes

The capacitive measuring principle works on the basis of a capacitor. An alternating current produces an electrical field between two electrodes. The characteristic value of a capacitor is its capacitance C (pF), which again is determined by diverse factors:

- distance of the electrodes (s)
- area of the electrode surface (A)
- dielectricum, of the material between the electrodes

For the measurement of levels, this capacitor is formed from the conducting container wall and the capacitive probe in the container which is used in the measurement. If this probe is built into the container then the distance of the electrodes as well as the area of the electrode surface is fixed and there is no change. The capacitance is in that case dependent only on the characteristics of the material in the container.

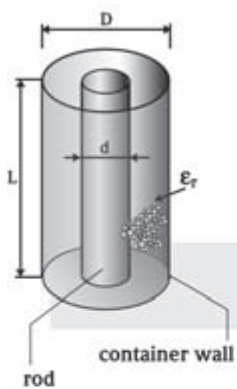
$$C = \frac{2\pi \cdot \epsilon_0 \cdot \epsilon_r \cdot 2}{\ln(D/d)}$$

The ϵ_0 (electric field constant) is a natural constant.

$$\epsilon_0 = 8,854 \text{ pF} / \text{m}$$

The relative dielectric constant ϵ_r (shortened to dk in measurement technology), is a characteristic material constant suitable for every material and describes the relationship of how much the capacitance of a capacitor changes when filled with a certain material in relationship to a capacitor filled with air. ϵ_r is a number without dimensions. Air, per definition, has a ϵ_r of 1. The dielectric constant of liquids and solid materials is always more than 1. If for example, the air which is present between the probe and container wall is replaced by another material during the filling operation, the capacitance always increases.

In order to ensure that a change of capacitance in the probe is produced in sufficient magnitude for the electronics to respond, the dielectric constant of the product to be measured must be sufficiently large. With dielectric constants larger than 2 the application is usually uncritical and easy to handle. Measuring products with dielectric constants smaller than 2, sufficiently large changes of capacitance must be achieved with for example, the use of grounding pipes (increase in the sensitivity of the probe by reducing the distance of the plates) or a suitably large probe. Occasionally, another measuring principle may have to be used. The dielectric constant however does not affect the measurement with conducting materials. In these cases a sufficiently large change in capacitance is always given.



$$C = \frac{2\pi \epsilon_0 \epsilon_r L}{\ln D/d}$$

Level measurement with microwaves

Light is the best known wave in the electromagnetic spectrum; everyone is confronted with it every day. Microwaves are waves produced electrotechnically within a defined frequency range. The microwave level measuring instrument from Endress+Hauser for example transmits with a frequency of app. 6 GHz and app. 26 GHz. Level measurement uses microwave technology to detect material surfaces.

The physical characteristics of microwaves are unique. Microwaves are practically not influenced by diverse gases. They function practically problem-free in a vacuum, they are negligibly influenced by high temperatures and pressures, build-up and condensate. These characteristics make microwave technology one of the most universal in comparison with other measuring principles.

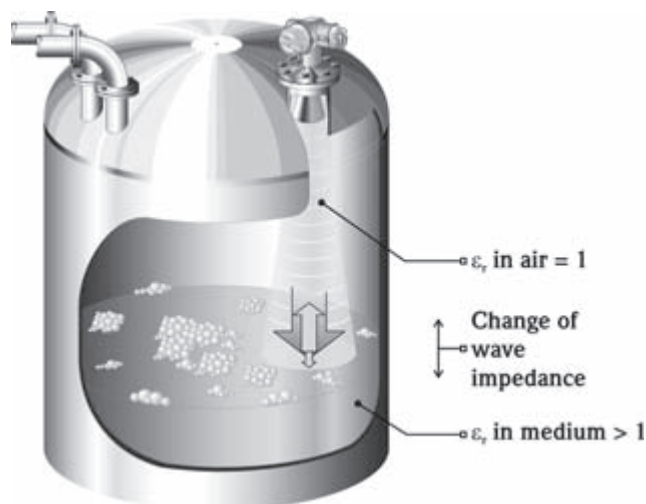
The microwave principle

Basically, the microwave principle is a tracking system working with very short, electromagnetic waves.

This principle is also called Radar measurement. Radar information is transmitted and gathered over a channel consisting of a transmitter, transmitter antenna, target, receiving antenna and receiver. The transmitter is a source of high frequency output which is radiated in bundled form. Only a portion of this output reaches the radar receiver. Reflection may be diffuse or complete, depending on the geometry, structural and material characteristics.

The microwave measurement process is a time of flight process, i.e. the measuring instrument determines the running time of the microwaves and changes it into a level proportional 0/4...20 mA signal.

Microwave measurement in an unobstructed tank works as of a DK value of 2.
Measurement in a pipe (bypass/surge pipe) requires a DK value as of c. 1.4.



Level measurement with micro-impulses

As of 1998, Endress+Hauser offers measuring instruments operating on the time of flight principle (micro-impulses), on the world markets. The typical applications here are finely grained bulk materials up to max. 20 mm granulation size, having a minimum dielectric value of 1.8. This includes e.g. lime, cement, gravel, grains, sugar, coal, and fly ash.

The micro-impulse principle

Very short impulses with a high repetitive frequency (460 kHz) are irradiated from the surface of a probe. The impulses may be visualised as energy packages with a diameter of c. 30 cm, running along the probe with the speed of light. As the environment around the probe changes with the presence of bulk materials, the electrical impedance also changes. This results in a partial reflection of the impulse, measured by a high frequency sampler after reception.

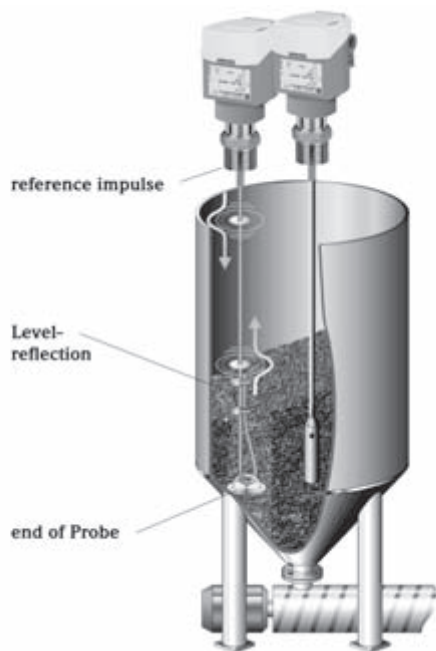
The time between the transmitted and the reflected impulse is the measure for the distance between the process connection (flange or thread) and the level of the material. As the rise time of the pulse is extremely short, the emitted frequency band is very wide; the “Time domain reflectory (tdr)” is used for signal recognition. With this method, a ± 1 % tolerance in measurement (over the entire range) is guaranteed. The micro-impulse process reliably recognises solids as of a DK value of 1.8.

$$D = c \cdot \frac{\Delta t}{2}$$

D = distance

c = speed of light

t = time-of-flight difference
between
the time of transmitting
and receiving



A

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
ABS granulate, black		1,7		RT	RT	654	0,654
acetal (1,1-diethoxyethane)	<chem>C6H14O2</chem>		3,8	25	77		
acetaldehyde	<chem>C2H4O</chem>		21,8	10	50		
acetaldehyde	<chem>C2H4O</chem>		18,55	15	59		
acetaldehyde	<chem>C2H4O</chem>		14,8	20	68		
acetaldoxim	<chem>C2H5NO</chem>	3		23	73,4		
acetamide	<chem>C2H5NO</chem>		59,2	77	170,6		
acetic acid	<chem>CH3COOH</chem>		24	20	68		
acetic acid	<chem>CH3COOH</chem>		6,15	20	68		
acetic acid	<chem>CH3COOH</chem>		6,195	25	77		
acetic acid	<chem>CH3COOH</chem>		6,6	70	158		
acetic anhydride	<chem>C4H6O3</chem>		17,9	20	68		
aceto-acetic ethyl ester	<chem>C6H10O3</chem>		15,7	22	71,6		
acetol	<chem>C3H6O2</chem>		3,59	21	69,8		
acetone	<chem>C3H6O</chem>		21,5	20	68		
acetophenonoxyl ethylester	<chem>C12H12O4</chem>		7,9	46	114,8		
acetoxy-3-brombutane	<chem>C6H11BrO2</chem>		7,268	25	77		
acetyl bromide	<chem>C2H3BrO</chem>		16,2	20	68		
acetyl cellulose			1,62	20	68		
acetyl chloride	<chem>C2H3ClO</chem>		15,9	20	68		
acetyl lacto nitrile	<chem>C5H7O2N</chem>		18,9	20	68		
aconite	<chem>C10H14O6</chem>		6,29	20	68		
Acronal 290 D			41	20	68		
Acrotherm oil			23,5	20	68		
actic-bentonite Geko old and normal			5,67	20	68		
activated charcoal			12	20	68		
activated coke pellets		14		RT	RT		
activator			23,5	20	68		
adhesive F-4			8,03	20	68		
adipic acid	<chem>C6H10O4</chem>		1,8	20	68		
Aerosil			1,03	20	68		
Aerosil		1,2		RT	RT	119	0,119
Ago-Rapid Neo-Ultra			3	20	68		
Ajax			2,3	20	68		
alloocimen	<chem>C10H16</chem>		2,557	25	77		
alloocimen	<chem>C10H16</chem>		20,6	21	69,8		
alloocimen	<chem>C10H16</chem>		7,09	30	86		
allyl iodide	<chem>C3H5I</chem>		6,1	19	66,2		
allylic mustard oil	<chem>C4H5NS</chem>		17,2	20	68		
alumina			2,26	20	68		
alumina, heavy		2,2		RT	RT	1090	1,09
aluminium bromide	<chem>AlBr3</chem>		3,38	100	212		
aluminium foil			10,83	20	68		
aluminium hydroxide	<chem>Al(OH)3</chem>		2,5	20	68		
aluminium oxide	<chem>Al2O3</chem>	2,6		RT	RT	1114	1,114
aluminium oxide + 15 % water	<chem>Al2O3</chem>		10,6	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
aluminium oxide + 25 % water	Al ₂ O ₃		13,5	20	68		
aluminium oxide, dry	Al ₂ O ₃		9,3	20	68		
aluminium potassium sulphate	AlK ₂ O ₈ S ₂		4,2	60	140		
aluminium sulphate	Al ₂ (SO ₄) ₃		2,63	20	68		
aluminium swarf	Al		7,3	20	68		
alumina, fresh		2,6		RT	RT	1056	1,056
Ambre Solaire			3	20	68		
amino-2-methylpropane	C ₄ H ₁₁ N		4,4	21	69,8		
aminododecane	C ₁₂ H ₂₇ N		3,13	30	86		
aminododecane	C ₁₂ H ₂₇ N		3,1	35	95		
aminofusinforte			22	25	77		
aminohexadecane	C ₁₆ H ₃₅ N		2,71	55	131		
amino-octadecane	C ₁₈ H ₃₉ N		2,67	53	127,4		
amino-octadecane	C ₁₈ H ₃₉ N		2,64	58	136,4		
aminooctane	C ₈ H ₁₉ N		4,05	2	35,6		
aminooctane	C ₈ H ₁₉ N		3,9	12,3	54,14		
aminopentane	C ₅ H ₁₃ N		4,5	22	71,6		
amino-tetradecane	C ₁₄ H ₃₁ N		2,9	40	104		
aminotoluene (-1)	C ₇ H ₉ N		4,6	20	68		
aminotoluene (-2)	C ₇ H ₉ N		6,34	18	64,4		
aminotoluene (-2)	C ₇ H ₉ N		5,71	58	136,4		
aminotoluene (-3)	C ₇ H ₉ N		5,95	20	68		
aminotoluene (-3)	C ₇ H ₉ N		5,45	58	136,4		
aminotoluene (-4)	C ₇ H ₉ N		5,07	50	122		
aminotoluene (-4)	C ₇ H ₉ N		4,88	58	136,4		
ammonia	NH ₃		25	-77,7	-107,86		
ammonia	NH ₃		22,7	-50	-58		
ammonia	NH ₃		22,38	-33	-27,4		
ammonia	NH ₃		15,9	15	59		
ammonia	NH ₃		14,9	25	77		
ammonia salt			4,33	20	68		
ammonia water 25 %	NH ₃		31,6	20	68		
amyl acetate	C ₇ H ₁₄ O ₂		4,81	19	66,2		
amyl alcohol	C ₅ H ₁₁ OH		15,95	20	68		
amyl alcohol	C ₅ H ₁₁ OH		14,8	20	68		
amyl alcohol	C ₅ H ₁₁ OH		14,4	25	77		
amyl alcohol (tert.)	C ₅ H ₁₂ O		5,69	25	77		
amyl alcohol (tert.)	C ₅ H ₁₂ O		6,695	30	86		
amyl benzoate	C ₁₂ H ₁₆ O ₂		5,03	19	66,2		
amyl benzoate	C ₁₂ H ₁₆ O ₂		5,03	19	66,2		
amyl bromide, pentyl bromide	C ₅ H ₁₁ Br		9,91	-90,3	-130,54		
amyl bromide, pentyl bromide	C ₅ H ₁₁ Br		6,31	25	77		
amyl chloride	C ₅ H ₁₁ Cl		6,6	11	51,8		
amyl chloride (tert.)	C ₅ H ₁₁ Cl		12,31	-50,4	-58,72		
amyl chloride (tert.)	C ₅ H ₁₁ Cl		9,3	16	60,8		
amyl cyanide	C ₆ H ₁₁ N		15,5	22	71,6		
amyl fluoride	C ₅ H ₁₁ F		4,242	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
amyl formate	$C_6H_{12}O_2$		5,61	19	66,2		
amyl formate	$C_6H_{12}O_2$		6,49	25	77		
amyl nitrate	$C_5H_{11}O_3N$		9	18	64,4		
amyl sulphide	$C_{10}H_{22}S$		3,826	25	77		
amyl sulphide	$C_{10}H_{22}S$		3,594	50	122		
amyl thiocyanate	$C_6H_{11}SN$		17,1	19,5	67,1		
aniline	C_6H_7N		7,09	15	59		
aniline	C_6H_7N		7,07	20	68		
aniline	C_6H_7N		6,987	25	77		
aniline	C_6H_7N		6,3	50	122		
aniline	C_6H_7N		6,2	58	136,4		
aniline	C_6H_7N		5,93	70	158		
animal feed with molasses, high quality			3,6	20	68		
animal feed, high-quality			4,4	20	68		
animal feed, meal			2,4	20	68		
anisaldehyde	$C_8H_8O_2$		22,3	20	68		
anisaldehyde	$C_8H_8O_2$		10,4	248	478,4		
anisaldoxime	$C_8H_9O_2N$		9,28	63	145,4		
anisaldoxime	$C_8H_9O_2N$		10,9	130	266		
anisaldoxime	$C_8H_9O_2N$		4,41	20	68		
anisaldoxime	$C_8H_9O_2N$		4,38	25	77		
anisaldoxime	$C_8H_9O_2N$		4,314	30	86		
anisaldoxime	$C_8H_9O_2N$		3,89	70	158		
anisole	C_7H_8O		4,5	15	59		
annol	$C_6H_5CH(CH_3)_2$		1,972	20	68		
anthracite			3,2	20	68		
antiblu lacquer			2,75	20	68		
antimony hydride	SbH_3		2,93	-80	-112		
antimony hydride	SbH_3		2,58	-50	-58		
antimony hydride	SbH_3		1,81	15	59		
antimony pentachloride	$SbCl_5$		3,22	21	69,8		
antimony tribromide	$SbBr_3$		20,9	100	212		
antimony trichloride	$SbCl_3$		33,2	75	167		
antimony triiodide	SbI_3		13,9	175	347		
Araldite FRL + Hardener HY 905 C			3,3	20	68		
Araldite FRL + Hardener HY 905 C			3,35	40	104		
Araldite FRL + Hardener HY 905 C			3,4	60	140		
Araldite FRL + Hardener HY 905 C			3,45	80	176		
Araldite FRL + Hardener HY 905 C			3,5	100	212		
Araldite FRL + Hardener HY 905 C			4	120	248		
Araldite resin			3,5...4,1	20	68		
argon	Ar		1,53	20	68		
Aromenzin			2,2	20	68		
arsenic tribromide	$AsBr_3$		8,83	35	95		
arsenic trichloride	$AsCl_3$		12,6	17	62,6		
arsenic trihydride	AsH_3		2,58	-50	-58		
arsenic trihydride	AsH_3		2,05	15	59		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
arsenic triiodide	AsI ₃		7	150	302		
Arsol			2,3	20	68		
artificial fertiliser			4,26	20	68		
asbestos			7	20	68		
asbestos			13	20	68		
asbestos, blue			3,4	20	68		
asbestos, blue			8	20	68		
asbestos, dry			10,2	20	68		
ascorbic acid (Vitamin C)	C ₆ H ₈ O ₆		2,05	20	68		
azoxybenzene	C ₁₂ H ₁₀ ON ₂		5,2	36	96,8		
azoxyphenetol	C ₁₆ H ₁₈ O ₃ N ₂		5,02	143	289,4		
azoxyphenetol	C ₁₆ H ₁₈ O ₃ N ₂				32		

B

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
Banst			1,56	20	68		
Barnangens			1,7	20	68		
Barra-Sperr			2,3	20	68		
basalt			2,5	20	68		
batch for glass production			8,9	20	68		
Baumwollsnat-Expeller 3381			1,6	20	68		
bauxite			2,5	20	68		
beer gyle			25	20	68		
beet seed			3,5	20	68		
beet seed, dry			3,66	20	68		
beet slices, cosettes			7,33	20	68		
beet slices, rolled			1,66	20	68		
bentonite			8,1	20	68		
bentonite (Geko)		19		RT	RT		
benzal chloride	C ₇ H ₆ Cl ₂		6,9	20	68		
benzal dimethylmalonate	C ₁₄ H ₁₆ O ₄		7,35	21	69,8		
benzaldehyde	C ₇ H ₆ O		10,87	15	59		
benzaldehyde	C ₇ H ₆ O		17,59	18	64,4		
benzaldoxime (trans)	C ₇ H ₇ ON		3,8	20	68		
benzene, heavy	C ₆ H ₆		3,2	20	68		
benzene, pure			1,9	20	68		
benzil	C ₁₄ H ₁₀ Os		5,9	70	158		
benzine			2	20	68		
benzine JP4 (aviation fuel)			1,83	22	71,6		
benzine, special			1,9	20	68		
benzole	C ₆ H ₆		2,302	10	50		
benzole	C ₆ H ₆		2,284	20	68		
benzole	C ₆ H ₆		2,27	25	77		
benzole, heavy	C ₆ H ₆		3,2	20	68		
benzole + malonate, without emulsion			3,5	20	68		
benzoyl acetate	C ₁₃ H ₁₄ O ₄		11,45	21	69,8		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
benzoyl chloride	C ₇ H ₅ ClO		29	0	32		
benzoyl chloride	C ₇ H ₅ ClO		20	20	68		
benzyl acetate	C ₉ H ₁₀ O ₂		5,1	21	69,8		
benzyl acetate	C ₉ H ₁₀ O ₂		5,1	21	69,8		
benzyl alcohol	C ₇ H ₈ O		13,6	15	59		
benzyl alcohol	C ₇ H ₈ O		13	20	68		
benzyl alcohol	C ₇ H ₈ O		9,47	70	158		
benzyl alcohol	C ₇ H ₈ O		6,6	132	269,6		
benzyl benzoate	C ₁₄ H ₁₂ O ₂		4,9	20	68		
benzyl benzoate	C ₁₄ H ₁₂ O ₂		4,9	20	68		
benzyl chloride	C ₇ H ₇ Cl		7	13	55,4		
benzyl ethyl ether	C ₉ H ₁₂ O		3,9	20	68		
benzyl iodide	C ₆ H ₅ I		4,63	20	68		
benzyl salicylate	C ₁₄ H ₁₂ O ₃		4,1	20	68		
benzyl salicylate	C ₁₄ H ₁₂ O ₃		4,1	20	68		
beta product			1,8	20	68		
Bewoid			3,5	20	68		
bibenzyl	C ₁₄ H ₁₄		2,47	58	136,4		
biopropanol			25	20	68		
biphenyl benzene	C ₁₂ H ₁₀		2,53	75	167		
bis(2-ethylhexyl) hydrogen phosphite	C ₁₆ H ₃₅ O ₃ P		5,16	32	89,6		
bis(chloromethyl)-p-xylene	C ₁₀ H ₁₂ Cl ₂		9	20	68		
bis-(perfluoro-butyl) ether	C ₈ F ₁₅ O		1,82	20	68		
bis-(trifluormethyl)-benzol	C ₈ H ₄ F ₆		5,98	30	86		
bis-(trifluormethyl)-benzol	C ₈ H ₄ F ₆		5,37	60	140		
bitumen			2,8	20	68		
bitumen			2,3	60	140		
bleaching earth		9,7		X	X		
Bios-Alba			4,8	20	68		
bone fat			2,7	20	68		
bone fat meal			2,2	20	68		
bone meal			1,7	20	68		
Boraxide			3,2	20	68		
Boraxide			2,96	20	68		
bornyl acetate	C ₁₂ H ₂₀ O ₂		4,6	21	69,8		
bornyl chloride	C ₁₀ H ₁₇ Cl		5,21	95	203		
boroethane	B ₂ H ₆		2,074	-164	-263,2		
boroethane	B ₂ H ₆		1,97	-128	-198,4		
boroethane	B ₂ H ₆		1,872	-92	-133,6		
boron tribromide	BBR ₃		2,58	0	32		
boron bromide	BBR ₃		2,58	20	68		
bread crumbs			4,1	20	68		
brick dust			2,83	20	68		
bromal	C ₂ HBr ₃ O		7,6	20	68		
bromododecane	C ₁₂ H ₂₅ Br		4,5	-4,9	23,18		
bromododecane	C ₁₂ H ₂₅ Br		4,46	-1	30,2		
bromododecane	C ₁₂ H ₂₅ Br		4,38	6,6	43,88		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
bromododecane	C ₁₂ H ₂₅ Br		4,07	25	77		
bromododecane	C ₁₂ H ₂₅ Br		4,15	31,5	88,7		
bromine	Br ₂		3,09	20	68		
bromine pentadecane	C ₁₅ H ₃₁ Br		3,88	20	68		
bromine pentafluoride	BrF ₅		8,33	-11,7	10,94		
bromine pentafluoride	BrF ₅		8,21	0	32		
bromine pentafluoride	BrF ₅		8,02	14,5	58,1		
bromine pentafluoride	BrF ₅		7,91	24,5	76,1		
bromine propionate	C ₃ H ₅ BrO ₂		11	21	69,8		
bromo octane	C ₈ H ₁₇ Br		6,37	-51	-59,8		
bromo octane	C ₈ H ₁₇ Br		6,29	-42	-43,6		
bromo octane	C ₈ H ₁₇ Br		6,15	-39	-38,2		
bromo octane	C ₈ H ₁₇ Br		5	25	77		
bromo-2-chloro-ethylene	C ₂ H ₂ BrCl		7,31	17	62,6		
bromo-2-chloro-ethylene	C ₂ H ₂ BrCl		2,5	17	62,6		
bromo-2-ethoxy-heptane	C ₉ H ₁₉ BrO		5,48	20	68		
bromo-2-ethoxy-pentane	C ₇ H ₁₅ BrO		6,45	25	77		
bromo-2-ethyl-benzene	C ₈ H ₉ Br		4,58	25	77		
bromo-2-methyl-butane	C ₅ H ₁₁ Br		9,1	19	66,2		
bromo-2-methyl-ethyl propionate	C ₆ H ₁₁ BrO ₂		7,9	20	68		
bromo-2-methylpropane	C ₄ H ₉ Br		7,18	25	77		
bromo-2-methylpropane	C ₄ H ₉ Br		10,25	20	68		
bromo-2-methylpropane	C ₄ H ₉ Br		10,3	25	77		
bromo-3-ethoxy-heptane	C ₉ H ₁₉ BrO		5,22	25	77		
bromo-3-ethoxy-pentane	C ₇ H ₁₅ BrO		6,4	25	77		
bromo-3-methylbutane	C ₅ H ₁₁ Br		6,01	23,2	73,76		
bromo-3-methylbutane	C ₅ H ₁₁ Br		4,7	boiling point			
bromo-3-methyl-butane	C ₅ H ₁₁ Br		6,01	23,2	73,76		
bromo-3-methyl-butane	C ₅ H ₁₁ Br		4,7	boiling point			
bromo-3-methyl-butyric acid	C ₅ H ₉ BrO ₂		6,5	20	68		
bromo-4-ethoxy-heptane	C ₉ H ₁₉ BrO		6,24	25	77		
bromo-4-ethoxy-pentane	C ₇ H ₁₅ BrO		8,24	25	77		
bromo-4-methoxybenzene	C ₇ H ₇ BrO		7,063	30	86		
bromo-4-methoxybenzene	C ₇ H ₇ BrO		6,898	40	104		
bromoacetyl bromide	C ₂ H ₂ Br ₂ O		12,4	20	68		
bromoaniline	C ₆ H ₆ BrN		13	19	66,2		
bromoaniline	C ₆ H ₄ BrNH ₂		13	20	68		
bromobenzene	C ₆ H ₅ Br		5,46	16	60,8		
bromobenzene	C ₆ H ₅ Br		5,398	20	68		
bromobenzene	C ₆ H ₅ Br		5,39	25	77		
bromobenzene	C ₆ H ₅ Br		5,4	20	68		
bromobutene	C ₄ H ₇ Br		5,05	20	68		
bromobutene (-2)	C ₄ H ₇ Br		6,76	20	68		
bromobutene (-3)	C ₄ H ₇ Br		5,38	20	68		
bromobutyl-2-acetate	C ₆ H ₁₁ BrO ₂		7,268	25	77		
bromobutyric acid	C ₄ H ₇ BrO ₂		7,2	20	68		
bromocyclohexane	C ₆ H ₁₁ Br		11	-65	-85		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
bromocyclohexane	C ₆ H ₁₁ Br		7,92	25	77		
bromocyclohexane	C ₆ H ₁₁ Br		7,92	25	77		
bromocyclohexane	C ₆ H ₁₁ Br		11	65	149		
bromodecane	C ₁₀ H ₂₁ Br		5,21	-27,6	-17,68		
bromodecane	C ₁₀ H ₂₁ Br		5,1	-20,5	-4,9		
bromodecane	C ₁₀ H ₂₁ Br		4,44	25	77		
bromodocosane	C ₂₂ H ₄₅ Br		3,2	42,7	108,86		
bromodocosane	C ₂₂ H ₄₅ Br		3,12	55,2	131,36		
bromodocosane	C ₂₂ H ₄₅ Br		3,1	60,2	140,36		
bromoethyl butyrate	C ₆ H ₁₁ BrO ₂		8	20	68		
bromoethyl propionate	C ₅ H ₉ BrO ₂		9	20	68		
bromoethylene chloride	C ₂ H ₄ BrCl		7,17	20	68		
bromoethylene chloride	C ₂ H ₄ BrCl		6,92	30	86		
bromoform	CHBr ₃		4,404	10	50		
bromoform	CHBr ₃		4,39	20	68		
bromoform	CHBr ₃		4,084	40	104		
bromoheptane	C ₇ H ₁₅ Br		6,92	-51	-59,8		
bromoheptane	C ₇ H ₁₅ Br		6,84	-48	-54,4		
bromoheptane	C ₇ H ₁₅ Br		6,71	-42	-43,6		
bromoheptane	C ₇ H ₁₅ Br		5,96	-10	14		
bromoheptane	C ₇ H ₁₅ Br		5,58	10	50		
bromoheptane	C ₇ H ₁₅ Br		5,38	22	71,6		
bromoheptane	C ₇ H ₁₅ Br		5,33	25	77		
bromoheptane	C ₇ H ₁₅ Br		4,48	90	194		
bromoheptane	C ₇ H ₁₅ Br		6,92	-51	-59,8		
bromoheptane	C ₇ H ₁₅ Br		6,84	-48	-54,4		
bromoheptane	C ₇ H ₁₅ Br		6,71	-42	-43,6		
bromoheptane	C ₇ H ₁₅ Br		5,96	-10	14		
bromoheptane	C ₇ H ₁₅ Br		5,58	10	50		
bromoheptane	C ₇ H ₁₅ Br		5,38	22	71,6		
bromoheptane	C ₇ H ₁₅ Br		5,33	25	77		
bromoheptane	C ₇ H ₁₅ Br		4,48	90	194		
bromoheptane (-2)	C ₇ H ₁₅ Br		6,46	22	71,6		
bromoheptane (-3)	C ₇ H ₁₅ Br		6,93	22	71,6		
bromoheptane (-4)	C ₇ H ₁₅ Br		6,81	22	71,6		
bromohexadecane	C ₁₆ H ₃₃ Br		3,8	20	68		
bromohexadecane	C ₁₆ H ₃₃ Br		3,68	25	77		
bromohexadecane	C ₁₆ H ₃₃ Br		3,66	37,4	99,32		
bromohexadecane	C ₁₆ H ₃₃ Br		3,57	40	104		
bromohexadecane	C ₁₆ H ₃₃ Br		3,46	55	131		
bromohexane	C ₆ H ₁₃ Br		6,3	1	33,8		
bromohexane	C ₆ H ₁₃ Br		5,82	25	77		
bromo-iso-butyric acide	C ₅ H ₉ BrO ₂		6,5	20	68		
bromo-isoethyl butyrate	C ₆ H ₁₁ BrO ₂		7,9	20	68		
bromomethane	CH ₃ Br		12,6	20	68		
bromo-naphthalene	C ₁₀ H ₇ Br		5,17	19	66,2		
bromo-naphthalene	C ₁₀ H ₇ Br		5,116	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
bromo-naphthalene	C ₁₀ H ₇ Br		4,83	25	77		
bromo-naphthalene	C ₁₀ H ₇ Br		4,7	40	104		
bromo-naphthalene	C ₁₀ H ₇ Br		4,57	55	131		
bromo-octadecyl bromide	C ₁₈ H ₃₇ Br		3,53	30,2	86,36		
bromo-octadecyl bromide	C ₁₈ H ₃₇ Br		3,52	32,4	90,32		
bromo-octadecyl bromide	C ₁₈ H ₃₇ Br		3,4	58,4	137,12		
bromopentane	C ₅ H ₁₁ Br		9,91	-90,3	-130,54		
bromopentane	C ₅ H ₁₁ Br		6,31	25	77		
bromopentane	C ₃ H ₇ Br		8,09	25	77		
bromopentane (-2)	C ₃ H ₇ Br		16,07	-85,6	-122,08		
bromopentane (-2)	C ₃ H ₇ Br		15,8	-81,8	-115,24		
bromopentane (-2)	C ₃ H ₇ Br		9,46	25	77		
bromopentane (-3)	C ₃ H ₅ Br		7	20	68		
bromopentane (-3)	C ₃ H ₅ Br		7,09	30	86		
bromotetradecane	C ₁₄ H ₂₉ Br		3,84	25	77		
bromotoluene	C ₇ H ₇ Br		4,28	58	136,4		
bromotoluene - meta	C ₆ H ₄ BrCH ₃		5,36	20	68		
bromotoluene (-3)	C ₇ H ₇ Br		5,36	58	136,4		
bromotoluene (-4)	C ₇ H ₇ Br		6	27,5	81,5		
bromotoluene (-4)	C ₇ H ₇ Br		5,49	58	136,4		
bromotoluene -para	C ₆ H ₄ BrCH ₃		4,28	20	68		
bromotoluene(-2)	C ₇ H ₇ Br		4,28	58	136,4		
bromotoluene(-3)	C ₇ H ₇ Br		5,36	58	136,4		
bromotoluene(-4)	C ₇ H ₇ Br		6	27,5	81,5		
bromotoluene(-4)	C ₇ H ₇ Br		5,49	58	136,4		
bromotoluene-ortho	C ₆ H ₄ BrCH ₃		5,49	20	68		
bromotridecane	C ₁₃ H ₂₇ Br		4,19	8	46,4		
bromotridecane	C ₁₃ H ₂₇ Br		4,18	12,7	54,86		
bromoundecane	C ₁₁ H ₂₃ Br		4,74	-9,3	15,26		
bromoundecane	C ₁₁ H ₂₃ Br		4,63	-3,3	26,06		
bromoundecane	C ₁₁ H ₂₃ Br		4,61	-0,6	30,92		
bentonite		5,5		RT	RT	945	0,945
butandiol-(1,3)-dinitrate	C ₄ H ₈ O ₆ N ₂		18,85	20	68		
butandiol-(2,3)-dinitrate	C ₄ H ₈ O ₆ N ₂		28,84	20	68		
butane	CH ₄		2,9	20	68		
butanediol-(1,4)	C ₄ H ₁₀ O ₂		32,9	15	59		
butanediol-(1,4)	C ₄ H ₁₀ O ₃		30,16	30	86		
butanediol-2,3-diacetate	C ₈ H ₁₄ O ₄		5,1	25	77		
butanediol-2,3-diacetate	C ₈ H ₁₄ O ₄		6,644	25	77		
butanedioldiacetate	C ₈ H ₁₄ O ₄		5,1	25	77		
butanedioldiacetate	C ₈ H ₁₄ O ₄		6,644	25	77		
butanenitrile	C ₄ H ₇ N		20,3	21	69,8		
butanethiol	C ₄ H ₁₀ S		4,952	25	77		
butanethiol	C ₄ H ₁₀ S		4,586	50	122		
butanoic anhydride	C ₈ H ₁₄ O ₃		12,9	20	68		
butanol	C ₄ H ₁₀ O		23,8	-25	-13		
butanol	C ₄ H ₁₀ O		19,5	10	50		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
butanol	C ₄ H ₁₀ O		17,96	20	68		
butanol	C ₄ H ₁₀ O		17,7	25	77		
butanol	C ₄ H ₁₀ O		15,683	30	86		
butanol	C ₄ H ₁₀ O		15,36	40	104		
butanol (-2)	C ₄ H ₁₀ O		17,46	20	68		
butanol (-2)	C ₄ H ₁₀ O		16,35	25	77		
butanone(-2)	C ₄ H ₈ O		20,3	0	32		
butanone(-2)	C ₄ H ₈ O		18,5	20	68		
butanone(-2)	C ₄ H ₈ O		18,35	30	86		
butanone(-2)	C ₄ H ₈ O		17,64	40	104		
butanone(-2)-oxime	C ₄ H ₉ ON		3,4	20	68		
butanoneoxim	C ₄ H ₉ ON		3,4	20	68		
butoxyacetylene	C ₆ H ₁₀ O		6,62	20	68		
butyl acetanilide	C ₁₂ H ₁₇ ON		11,66	25	77		
butyl acetate	CH ₃ COOC ₄ H ₉		5,01	20	68		
butyl acetate	C ₆ H ₁₂ O ₂		2,41	-77,6	-107,68		
butyl acetate	C ₆ H ₁₂ O ₃		5,01	19	66,2		
butyl acetate	C ₆ H ₁₂ O ₄		4,873	30	86		
butyl acetate	C ₆ H ₁₂ O ₅		4,734	40	104		
butyl acetate	C ₆ H ₁₂ O ₂		2,41	-77,6	-107,68		
butyl acetate	C ₆ H ₁₂ O ₂		5,01	19	66,2		
butyl acetate	C ₆ H ₁₂ O ₂		4,873	30	86		
butyl acetate	C ₆ H ₁₂ O ₂		4,734	40	104		
butyl acrylate	C ₇ H ₁₂ O ₂		4,35	0	32		
butyl acrylate	C ₇ H ₁₂ O ₂		4,15	20	68		
butyl alcohol	C ₄ H ₁₀ O		19,2	20	68		
butyl alcohol	C ₄ H ₁₀ O		23,8	-25	-13		
butyl alcohol	C ₄ H ₁₀ O		19,5	10	50		
butyl alcohol	C ₄ H ₁₀ O		17,96	20	68		
butyl alcohol	C ₄ H ₁₀ O		17,7	25	77		
butyl alcohol	C ₄ H ₁₀ O		15,683	30	86		
butyl alcohol	C ₄ H ₁₀ O		15,36	40	104		
butyl alcohol	C ₄ H ₁₀ O		17,46	20	68		
butyl alcohol	C ₄ H ₁₀ O		16,35	25	77		
butyl alcohol	C ₄ H ₁₀ O		12,27	26	78,8		
butyl alcohol	C ₄ H ₁₀ O		12,02	27,8	82,04		
butyl alcohol	C ₄ H ₁₀ O		11,23	30	86		
butyl alcohol	C ₄ H ₁₀ O		9,55	42,1	107,78		
butyl alcohol	C ₄ H ₁₀ O		8,49	50,5	122,9		
butyl alcohol	C ₄ H ₁₀ O		6,96	60	140		
butyl benzene	C ₁₀ H ₁₄		2,359	20	68		
butyl benzene	C ₁₀ H ₁₄		2,338	30	86		
butyl benzene	C ₁₀ H ₁₄		2,359	20	68		
butyl benzene	C ₁₀ H ₁₄		2,338	30	86		
butyl benzene	C ₁₀ H ₁₄		2,364	20	68		
butyl benzene	C ₁₀ H ₁₄		2,345	30	86		
butyl benzene	C ₁₀ H ₁₄		2,366	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
butyl benzene	C ₁₀ H ₁₄		2,346	30	86		
butyl bromide	C ₄ H ₉ Br		7,99	20	68		
butyl bromide	C ₄ H ₉ Br		6,799	30	86		
butyl bromide	C ₄ H ₉ Br		5,535	90	194		
butyl bromide	C ₄ H ₉ Br		8,64	25	77		
butyl bromide	C ₄ H ₉ Br		7,23	15	59		
butyl bromide	C ₄ H ₉ Br		7,99	20	68		
butyl bromide	C ₄ H ₉ Br		6,799	30	86		
butyl bromide	C ₄ H ₉ Br		5,535	90	194		
butyl bromide	C ₄ H ₉ Br		8,64	25	77		
butyl bromide	C ₄ H ₉ Br		10,25	20	68		
butyl bromide	C ₄ H ₉ Br		10,3	25	77		
butyl chloride	C ₄ H ₉ Cl		12,24	-90	-130		
butyl chloride	C ₄ H ₉ Cl		7,663	10	50		
butyl chloride	C ₄ H ₉ Cl		7,572	13,6	56,48		
butyl chloride	C ₄ H ₉ Cl		7,398	20	68		
butyl chloride	C ₄ H ₉ Cl		7,147	28,55	83,39		
butyl chloride	C ₄ H ₉ Cl		6,77	42,45	108,41		
butyl chloride	C ₄ H ₉ Cl		11,72	-10	14		
butyl chloride	C ₄ H ₉ Cl		10,34	10	50		
butyl chloride	C ₄ H ₉ Cl		9,9	20	68		
butyl chloride	C ₄ H ₉ Cl		9,574	25	77		
butyl chloride	C ₄ H ₉ Cl		9,23	30	86		
butyl cyanide	C ₅ H ₉ N		22,6	-1	30,2		
butyl cyanide	C ₅ H ₉ N		20	20	68		
butyl cyanide	C ₅ H ₉ N		22,6	-1	30,2		
butyl cyanide	C ₅ H ₉ N		20	20	68		
butyl ether	C ₈ H ₁₈ O		3,045	25	77		
butyl ethinyl ether	C ₆ H ₁₀ O		6,62	25	77		
butyl formate	C ₅ H ₁₀ O ₂		2,43	-78,7	-109,66		
butyl iodide	C ₄ H ₉ I		6,29	20	68		
butyl iodide	C ₄ H ₉ I		7,84	20	68		
butyl nitrate	C ₄ H ₉ O ₃ N		13,1	20	68		
butyl oleate	C ₂₂ H ₄₂ O ₂		4	25	77		
butyl phthalate			4,25	20	68		
butyl silane	C ₄ H ₁₂ Si		2,537	20	68		
butyl stearate	C ₂₂ H ₄₄ O ₂		3,111	30	86		
butyl stearate	C ₂₂ H ₄₄ O ₂		3,111	30	86		
Butylamine	C ₄ H ₁₁ N		4,88	20	68		
Butylamine	C ₈ H ₁₉ N		2,998	20	68		
butyraldehyde	C ₄ H ₈ O		13,4	26	78,8		
butyraldehyde	C ₄ H ₈ O		10,8	77	170,6		
butyric acid	C ₃ H ₇ COOH		3	20	68		
butyric acid	C ₄ H ₈ O ₂		2,932	10	50		
butyric acid	C ₄ H ₈ O ₂		2,97	20	68		
butyric acid	C ₄ H ₈ O ₂		3,074	70	158		
butyric aldehyde	C ₄ H ₈ O		13,4	26	78,8		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
butyric aldehyde	C ₄ H ₈ O		10,8	77	170,6		

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Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
cacao beans		1,8		RT	RT	534	0,534
cacao nib		1,8		RT	RT	483	0,483
cacao shells			1,7	20	68		
calcium formate			2,2	20	68		
calcium hydroxyide, fine		2,7		RT	RT	390	0,39
camomile			34	20	68		
camphandion-(2,3)	C ₁₀ H ₁₄ O ₂		16,3	203	397,4		
camphene	C ₁₀ H ₁₆		2,33	20	68		
camphene	C ₁₀ H ₁₇		2,3	40	104		
camphoric acid imide	C ₁₀ H ₁₅ O ₂ N		5,5	249	480,2		
caproic acid	C ₆ H ₁₂ O ₂		2,63	71	159,8		
caproic acid	C ₆ H ₁₂ O ₂		2,63	71	159,8		
caprolactam	C ₆ H ₁₁ NO		3	25	77		
caprolactam	C ₆ H ₁₁ NO		8	95	203		
capronitrile	C ₆ H ₁₁ N		15,5	22	71,6		
caprylic acid	C ₈ H ₁₆ O ₂		2,45	20	68		
caprylic acid	C ₈ H ₁₆ O ₃		2,446	30	86		
caprylic acid	C ₈ H ₁₆ O ₄		2,54	71	159,8		
caprylic acid	C ₈ H ₁₆ O ₂		2,45	20	68		
caprylic acid	C ₈ H ₁₆ O ₂		2,446	30	86		
caprylic acid	C ₈ H ₁₆ O ₂		2,54	71	159,8		
caranone	C ₁₀ H ₁₆ O		18,8	20	68		
carbamide moulding powder			1,8	20	68		
Carbazole			1,3	20	68		
carbon bisulphide, pure	CS ₂		2,63	20	68		
carbon bisulphide, pure	CS ₂		2,625	25	77		
carbon tetrachloride	CCl ₄		2,288	0	32		
carbon tetrachloride	CCl ₄		2,244	15	59		
carbon tetrachloride	CCl ₄		2,242	20	68		
carbon tetrachloride	CCl ₄		2,23	25	77		
carbon tetrachloride	CCl ₄		2,207	40	104		
carbon tetrachloride	CCl ₄		2,1	boiling point			
carbonic acid	CO ₂		1,6	0	32		
carbonic acid	CO ₂		2,644	10	50		
carbonyl cyanide	CO(CN) ₂		10,68	18,4	65,12		
carbonyl selenide	COSe		3,47	10	50		
carpet shreds		1,1		RT	RT	144	0,144
carvone	C ₁₀ H ₁₄ O		11	22	71,6		
casting silver			2,8	20	68		
catalysor, substrate		1,8		RT	RT	404	0,404
catalysor, substrate, 63-200µm		1,6		RT	RT	942	0,942
catechol dimethyl ether	C ₈ H ₁₀ O ₂		4,5	23	73,4		
cattle lick			2,8	20	68		
cellosolveacetate	C ₆ H ₁₂ O ₃		7,567	30	86		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
cellosolveacetate	$C_6H_{12}O_3$		7,252	40	104		
cellosolveacetate	$C_6H_{12}O_3$		6,95	50	122		
cellulose nitrate lacquer			5,2	20	68		
cellulose, flakes			19	20	68		
celulose, mash			34,5	20	68		
cement		2,16		RT	RT	1052	1,052
cement, iron Portland			3,5	20	68		
cement, Portland			3,8	20	68		
cement, Portland		2,2		RT	RT	1166	1,166
cement, white			1,43	20	68		
ceramic, bulk	Al_2O_3		17	20	68		
ceramic	Al_2O_3		7,66	20	68		
ceramic, white powder	Al_2O_3		8	20	68		
ceramic, white powder	Al_2O_3		2,7	20	68		
chaff			1,54	20	68		
chalk		2,1		RT	RT	1216	1,216
chalk		2,4		RT	RT	1012	1,012
chalk			3,2	20	68		
chalk rubble			7	20	68		
chalk, jura with Karu			2,17	20	68		
chalk, jura with Karu			1,96	20	68		
chamotte			1,8	20	68		
chamotte granules			2,33	20	68		
charcoal			1,3	20	68		
chloral	C_2HCl_3O		5,044	14,5	58,1		
chloral	C_2HCl_3O		6,67	20	68		
chlordodecane	$C_{12}H_{25}Cl$		4,17	25	77		
chlordodecane	$C_{12}H_{25}Cl$		4,17	25	77		
chlorinated lime			2,33	20	68		
chlorine trifluoride	ClF_3		4,75	0	32		
chlorine trifluoride	ClF_3		4,29	25	77		
chlorine, solution	Cl_2		2,1	20	68		
chloro-1,3-di-(trifluoromethyl)-benzene	$C_8H_3ClF_6$		3,2	30	86		
chloro-1,3-di-(trifluoromethyl)-benzene	$C_8H_3ClF_6$		3	60	140		
chloro-1,3-di-(trifluoromethyl)-benzene	$C_8H_3ClF_6$		5,44	30	86		
chloro-1,3-di-(trifluoromethyl)-benzene	$C_8H_3ClF_6$		4,96	60	140		
chloro-1-methyl benzene	C_7H_7Cl		4,45	20	68		
chloro-1-methyl benzene	C_7H_7Cl		4,16	58	136,4		
chloro-1-methyl benzene	C_7H_7Cl		5,55	20	68		
chloro-1-methyl benzene	C_7H_7Cl		5,04	58	136,4		
chloro-1-methyl benzene	C_7H_7Cl		6,08	20	68		
chloro-1-methyl benzene	C_7H_7Cl		5,55	58	136,4		
chloro-2-bromobenzene	C_6H_4ClBr		6,8	20	68		
chloro-2-methyl butane	$C_5H_{11}Cl$		12,31	-50,4	-58,72		
chloro-2-methyl butane	$C_5H_{11}Cl$		9,3	16	60,8		
chloro-2-methyl propane	C_4H_9Cl		6,54	15	59		
chloro-2-methyl propane	C_4H_9Cl		11,72	-10	14		
chloro-2-methyl propane	C_4H_9Cl		10,34	10	50		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
chloro-2-methyl propane	C ₄ H ₉ Cl		9,9	20	68		
chloro-2-methyl propane	C ₄ H ₉ Cl		9,574	25	77		
chloro-2-methyl propane	C ₄ H ₉ Cl		9,23	30	86		
chloro-2-nitro-benzene	C ₆ H ₄ ClO ₂ N		37,7	50	122		
chloro-3-bromobenzene	C ₆ H ₄ ClBr		4,58	20	68		
chloro-3-methyl butane	C ₅ H ₁₁ Cl		6,1	18,8	65,84		
chloro-3-methylbutane	C ₅ H ₁₁ Cl		6,1	18,8	65,84		
chloro-3-nitro-benzene	C ₆ H ₄ ClO ₂ N		13,95	55	131		
chloro-3-nitro-benzene	C ₆ H ₄ ClO ₂ N		13,61	60	140		
chloro-3-nitro-benzene	C ₆ H ₄ ClO ₂ N		13,29	65	149		
chloro-3-nitro-benzotrifluoride	C ₇ H ₃ ClF ₃ O ₂ N		12,8	30	86		
chloro-4-ethyl-benzene	C ₈ H ₉ Cl		6,04	25	77		
chloro-4-nitro-benzene	C ₆ H ₄ ClO ₂ N		8,09	120	248		
chloro-4-nitro-benzene	C ₆ H ₄ ClO ₂ N				32		
chloro-5-nitro-benzotrifluoride	C ₇ H ₃ ClF ₃ O ₂ N		9,8	30	86		
chloroacetic acid	CH ₂ Cl-COOH		33,4	20	68		
chloroacetic acid	C ₂ H ₃ ClO ₂		12,3	60	140		
chloroacetic acid	C ₂ H ₃ ClO ₂		11,34	73,2	163,76		
chloroamyl acetate	C ₇ H ₁₃ ClO ₂		7,8	20	68		
chloroamyl formate	C ₆ H ₁₁ ClO ₂		7,8	20	68		
chloroaniline	C ₆ H ₆ ClN		13,4	19	66,2		
chloroaniline	C ₆ H ₄ ClNH ₂		13	20	68		
chlorobenzene	C ₆ H ₅ Cl		6,08	0	32		
chlorobenzene	C ₆ H ₅ Cl		5,641	20	68		
chlorobenzene	C ₆ H ₅ Cl		5,41	30	86		
chlorobenzene	C ₆ H ₅ Cl		5,22	50	122		
chlorobenzene	C ₆ H ₅ Cl		4,9	75	167		
chlorobenzene	C ₆ H ₅ Cl		4,2	boiling point			
chlorobutane	C ₄ H ₉ Cl		12,24	-90	-130		
chlorobutane	C ₄ H ₉ Cl		7,663	10	50		
chlorobutane	C ₄ H ₉ Cl		7,572	13,6	56,48		
chlorobutane	C ₄ H ₉ Cl		7,398	20	68		
chlorobutane	C ₄ H ₉ Cl		7,147	28,55	83,39		
chlorobutane	C ₄ H ₉ Cl		6,77	42,45	108,41		
chlorobutyl formate	C ₅ H ₉ ClO ₂		9,1	20	68		
chlorocyclohexane	C ₆ H ₁₁ Cl		10,9	-47	-52,6		
chlorocyclohexane	C ₆ H ₁₁ Cl		8,15	20	68		
chlorocyclohexane	C ₆ H ₁₁ Cl		7,6	25	77		
chlorocyclohexane	C ₆ H ₁₁ Cl		10,9	-47	-52,6		
chlorocyclohexane	C ₆ H ₁₁ Cl		8,15	20	68		
chlorocyclohexane	C ₆ H ₁₁ Cl		7,6	25	77		
chlorodifluoromethane	CHCl F ₂		6,12	20	68		
chloroethyl acetate	C ₄ H ₇ ClO ₂		11,4	21	69,8		
chloroethyl formate	C ₃ H ₅ ClO ₂		11	20	68		
chloroethyl-2,5-dichlorobenzene	C ₈ H ₇ Cl ₃		5,2	24	75,2		
chloroethylcrotonate	C ₆ H ₉ ClO ₂		7,67	75	167		
chloroethylcrotonate	C ₆ H ₉ ClO ₂		4,7	54	129,2		
chloroform	CHCl ₃		4,806	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
chloroform	CHCl ₃		4,72	25	77		
chloroform	CHCl ₃		4,23	boiling point			
chloroheptane	C ₇ H ₁₅ Cl		5,48	22	71,6		
chloroheptane	C ₇ H ₁₅ Cl		6,52	22	71,6		
chloroheptane	C ₇ H ₁₅ Cl		6,7	22	71,6		
chloroheptane	C ₇ H ₁₅ Cl		6,54	22	71,6		
chloroheptane	C ₇ H ₁₅ CL		5,48	22	71,6		
chlorohydrin	C ₃ H ₇ ClO ₂		31	20	68		
chloromethyl acetate	C ₃ H ₅ ClO ₂		12,9	21	69,8		
chloronaphthalene	C ₁₀ H ₇ Cl		5,04	25	77		
chlorooctane	C ₈ H ₁₇ Cl		5,05	25	77		
chloropentane	C ₅ H ₁₁ Cl		6,6	11	51,8		
chlorophenol	C ₆ H ₅ ClO		6,16	30	86		
chlorophenol	C ₆ H ₅ ClO		6,06	35	95		
chlorophenol	C ₆ H ₅ ClO		5,91	40	104		
chlorophenol	C ₆ H ₅ ClO		5,41	58	136,4		
chlorophenol	C ₆ H ₅ ClO		9,36	55	131		
chlorophenol	C ₆ H ₅ ClO		9,16	60	140		
chlorophenol	C ₆ H ₅ ClO		8,98	65	149		
chlorophenol	C ₆ H ₄ ClOH		6,31	20	68		
chlorophenol	C ₆ H ₄ ClOH		9,47	20	68		
chloro-propandiol-(1,2)	C ₃ H ₇ ClO ₂		31	20	68		
chloropropanediol-(1,2)-dinitrate	C ₃ H ₅ ClO ₆ N ₂		17,5	20	68		
chloropropane	C ₃ H ₇ Cl		8,13	20	68		
chloropropanone	C ₃ H ₅ ClO		30	19	66,2		
chloropropene	C ₃ H ₅ Cl		8,2	20	68		
chloropropyl formate	C ₄ H ₇ ClO ₂		11,2	20	68		
chloropropylene	C ₃ H ₅ Cl		8,92	26,1	78,98		
chlorotoluene	C ₇ H ₇ Cl		4,45	20	68		
chlorotoluene	C ₇ H ₇ Cl		4,16	58	136,4		
chlorotoluene	C ₇ H ₇ Cl		5,55	20	68		
chlorotoluene	C ₇ H ₇ Cl		5,04	58	136,4		
chlorotoluene	C ₇ H ₇ Cl		6,08	20	68		
chlorotoluene	C ₇ H ₇ Cl		5,55	58	136,4		
chlorotoluene	C ₇ H ₇ Cl		7	13	55,4		
Chlor-propionsäureethylester	C ₅ H ₉ ClO ₂		10,1	20	68		
chocolate			1,4 with build-up	50	122		
chocolate			3 without build-up	50	122		
chocolate bulk, cocoa butter			1,2 with build-up	20	68		
chocolate bulk, cocoa butter			2,5 without build-up	20	68		
chocolate bulk, Sarotti			1,3 with build-up	20	68		
chocolate bulk, Sarotti			3,2 without build-up	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
chocolate mass, "N. Alpenland"			1,4 with build-up	20	68		
chocolate mass, "N. Alpenland"			3,2 without build-up	20	68		
chocolate mass, "Mokka Sahne"			1,3 with build-up	20	68		
chocolate mass, "Mokka Sahne"			3,2 without build-up	20	68		
chocolate mass, "Nougat Butter"			1,3 with build-up	20	68		
chocolate mass, "Nougat Butter"			2,9 without build-up	20	68		
chocolate mass, "Si Bitter"			1,3 with build-up	20	68		
chocolate mass, "Si Bitter"			3,2 without build-up	20	68		
chocolate mass			1,4 with build-up	20	68		
chocolate mass, "SIM"			3 without build-up	20	68		
chocolate powder			2	20	68		
choropropane	C_3H_5Cl		8,2	20	68		
cinder			12	20	68		
cinder wool			1,23	20	68		
cinnamic aldehyde	C_9H_8O		16,92	25	77		
cis-diiodo ethylene	$C_2H_2I_2$		4,46	72,5	162,5		
hexene-(3)	C_6H_{12}		2,062	25	77		
octene-(3)	C_8H_{16}		2,062	25	77		
octene-(4)	C_8H_{16}		2,053	25	77		
clay			15	20	68		
clay slurry			28	20	68		
cleaner's naphtha			2	20	68		
clover			2,5	20	68		
coal 15 % moisture	C		4	20	68		
coal 65 % moisture	C		25,3	20	68		
coal dust	C		2,49	20	68		
coal powder	C		4,6	20	68		
coarse meal			2,5	20	68		
cocoa butter			3,3	105	221		
coconut oil (ref.)			2,9	20	68		
coconut, meal			3,3	20	68		
coffee beans		1,5		RT	RT	356	0,356
coffee beans A, brown			3,33	20	68		
coffee beans A, green			4,66	20	68		
coke			3	20	68		
coke			8	20	68		
cola syrup			17,3	20	68		
common salt 0.9	NaCl		23	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
common salt 0,9	NaCl		22	110	230		
concentrate			3,2...3,8	20	68		
Controx 203			25	20	68		
Copisil		2,4		RT	RT		
Copo		1,4		RT	RT	466	0,466
copper ore, grain size 0-10 mm normal moisture)			5,6	20	68		
copper ore, grain size 4-9 mm			6	20	68		
copra			2,3	20	68		
cork powder			1,7	20	68		
cork shavings			2,034	20	68		
corn powder		3,2		RT	RT	669	0,669
cotton fibre powder			3,2	20	68		
Creme Mennen Mousante			16,5	20	68		
Creme Mennen Sans blaiseau			16	20	68		
Creme-Frisier Brisk			9,67	20	68		
Creme-Kirone			17,4	20	68		
Creme-Superfluo			19,5	20	68		
cresole	C ₇ H ₈ O		10,3	17	62,6		
cresole resin			18,3	20	68		
crude tar			4	20	68		
curry ketchup			24	20	68		
cyanic acid	HCN		158,1	0	32		
cyanic acid	HCN		114,9	20	68		
cynoacetic acid	C ₃ H ₃ O ₂ N		33,4	4	39,2		
cynoethylacetic acid	C ₅ H ₇ O ₂ N		27,7	21	69,8		
cyanogen	C ₂ N ₂		2,52	23	73,4		
cyanomethylacetic acid	C ₄ H ₅ O ₂ N		28,8	20	68		
cyanuric chloride, pure	C ₃ Cl ₃ N ₃		1,65	20	68		
cyanuric chloride, untreated			1,63	20	68		
cyclohexadiene-(1,3)	C ₆ H ₈		2,68	-89	-128,2		
cyclohexandione	C ₆ H ₈ O ₂		4,4	78	172,4		
cyclohexane	C ₆ H ₁₂		2,023	20	68		
cyclohexanol	C ₆ H ₁₂ O		15	20	68		
cyclohexanol	C ₆ H ₁₂ O		14,8	25	77		
cyclohexanol	C ₆ H ₁₂ O		14,1	35	95		
cyclohexanol	C ₆ H ₁₂ O		12,5	45	113		
cyclohexanone	C ₆ H ₁₀ O		18,3	20	68		
cyclohexanone, oxime	C ₆ H ₁₁ ON		3,04	89	192,2		
cyclohexene	C ₆ H ₁₀		2,6	-105	-157		
cyclohexene	C ₆ H ₁₀		2,22	20	68		
cyclohexylamine	C ₆ H ₁₃ N		5,37	-21	-5,8		
cyclohexylamine	C ₆ H ₁₃ N		4,73	20	68		
cyclohexylcarboxylic acid	C ₇ H ₁₂ O ₂		2,67	31	87,8		
cyclohexylphenol	C ₁₂ H ₁₈ O		3,97	55	131		
cyclohexylphenol	C ₁₂ H ₁₈ O		4,42	131	267,8		
cyclopentane	C ₅ H ₁₀		1,965	20	68		
cyclopentanecarbonitrile	C ₆ H ₉ N		24,5	-3	26,6		
cyclopentanecarbonitrile	C ₆ H ₉ N		22,7	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
cyclopentanol	C ₅ H ₁₀ O		25,5	-20	-4		
cyclopentanol	C ₅ H ₁₀ O		18	20	68		
cyclopentanone	C ₅ H ₈ O		16,3	-51	-59,8		
cyclopentanone	C ₅ H ₈ O		13,45	20	68		
cyclopentene	C ₅ H ₈		2,095	20	68		
cyclopentylcyanide	C ₆ H ₉ N		24,5	-3	26,6		
cyclopentylcyanide	C ₆ H ₉ N		22,7	20	68		
cymene	H ₃ C-CH-CH ₃ -CH ₃		2,25	20	68		

D

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
limonene	C ₁₀ H ₁₆		2,3	20	68		
lmonene	C ₁₀ H ₁₆		2,381	25	77		
Daz (washing powder)			1,8	20	68		
DDT	C ₁₄ H ₉ Cl ₅		2,9	104	219,2		
DDT	C ₁₄ H ₉ Cl ₅		2,381	145	293		
decahydronaphthalene	C ₁₀ H ₁₈		2,11	20	68		
decahydronaphthalene	C ₁₀ H ₁₈		2,15	25	77		
decahydronaphthalene	C ₁₀ H ₁₈		2,219	20	68		
decahydronaphthalene	C ₁₀ H ₁₈		2,184	20	68		
decalin	C ₁₀ H ₁₈		2,11	20	68		
decalin	C ₁₀ H ₁₈		2,15	25	77		
decalin	C ₁₀ H ₁₈		2,219	20	68		
decalin	C ₁₀ H ₁₈		2,184	20	68		
Decamethylcyclopentasiloxan	C ₁₀ H ₃₀ O ₅ Si ₅		2,5	20	68		
decamethylcyclotetrasiloxan	(C ₂ H ₆ OSi) _n		2,5	20	68		
decamethyltetrasiloxan	C ₆ H ₁₈ OSi ₂ (CH ₃) ₃ Si (OSi(CH ₃) ₂) _n CH ₃		2,39	20	68		
Decamethyltetrasiloxan	C ₁₀ H ₃₀ O ₃ Si ₄		2,37	20	68		
decane	C ₁₀ H ₂₂		1,991	20	68		
decane	C ₁₀ H ₂₂		1,98	30	86		
decanol-(1)	C ₁₀ H ₂₂ O		8,1	20	68		
decene	C ₁₀ H ₂₀		2,24	16,7	62,06		
decene-(5)	C ₁₀ H ₂₀		2,071	25	77		
decene-(5)	C ₁₀ H ₂₀		2,03	25	77		
Decrolin No. 53			2,4	20	68		
decyl bromide	C ₁₀ H ₂₁ Br		5,21	-27,6	-17,68		
decyl bromide	C ₁₀ H ₂₁ Br		5,1	-20,5	-4,9		
decyl bromide	C ₁₀ H ₂₁ Br		4,44	25	77		
de-icer			23	20	68		
Desmodur			10	20	68		
Desmophen			9,41	20	68		
Desmophen 200			2,2	20	68		
Desmophen 200 + 2000			10,4	20	68		
Desmophen 2000			2,2	20	68		
Desmorphen			4,5	20	68		
detergent, basic material		4,3		RT	RT	585	0,585

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
detergent, Dash			1,8	20	68		
deuterium	D ₂		1,277	20	68		
deuterium oxide, heavy water	D ₂		78,2	25	77		
diacetone alcohol	C ₆ H ₁₂ O ₂		18,2	25	77		
diamylacetylene	C ₁₂ H ₂₂		2,17	25	77		
diamylacetylene	C ₁₂ H ₂₂		2,17	25	77		
diamylene	C ₁₀ H ₁₈		2,42	17	62,6		
diamylether	C ₁₀ H ₂₂ O		3,08	15	59		
diamylether	C ₁₀ H ₂₂ O		2,822	25	77		
diamylether	C ₁₀ H ₂₂ O		2,636	30	86		
diamylether	C ₁₀ H ₂₂ O		2,567	40	104		
dibenzylamine	C ₁₄ H ₁₅ N		3,446	20	68		
dibenzofuran	C ₁₂ H ₈ O		3	100	212		
dibenzyl sebacate	C ₂₄ H ₃₀ O ₄		6,661	25	77		
dibromo-2-methylpropane	C ₄ H ₈ Br ₂		4,1	20	68		
dibromobenzene	C ₆ H ₄ Br ₂		7,5	20	68		
dibromobenzene	C ₆ H ₄ Br ₂		4,74	23	73,4		
dibromobenzene	C ₆ H ₄ Br ₂		2,57	95	203		
dibromobutane	C ₄ H ₈ Br ₂		5,758	25	77		
dibromobutane	C ₄ H ₈ Br ₂		6,245	25	77		
dibromoethane	C ₂ H ₄ Br ₂		4,86	18	64,4		
dibromoethane	C ₂ H ₄ Br ₂		4,85	20	68		
dibromoethane	C ₂ H ₄ Br ₂		4,76	25	77		
dibromoethane	C ₂ H ₄ Br ₂		4,67	40	104		
dibromoethane	C ₂ H ₄ Br ₂		4,58	55	131		
dibromoethane	C ₂ H ₄ Br ₂		4,09	boiling point			
dibromoethene	C ₂ H ₂ Br ₂		7,72	0	32		
dibromoethene	C ₂ H ₂ Br ₂		7,08	25	77		
dibromoethene	C ₂ H ₂ Br ₂		7,7	20	68		
dibromoethylene	C ₂ H ₂ Br ₂		2,97	0	32		
dibromoethylene	C ₂ H ₂ Br ₂		2,88	25	77		
dibromoethylene	C ₂ H ₂ Br ₂		2,9	20	68		
dibromoheptane	C ₇ H ₁₄ Br ₂		3,77	25	77		
dibromoheptane	C ₇ H ₁₄ Br ₂		5,08	25	77		
dibromoheptane	C ₇ H ₁₄ Br ₂		4,7	25	77		
dibromohexane	C ₆ H ₁₂ Br ₂		6,732	25	77		
dibromohexane	C ₆ H ₁₂ Br ₂		4,67	25	77		
dibromomethane	CH ₂ Br ₂		7,77	20	68		
dibromomethane	CH ₂ Br ₂		7,77	10	50		
dibromomethane	CH ₂ Br ₂		7,04	20	68		
dibromomethane	CH ₂ Br ₂		6,68	40	104		
dibromopentane	C ₅ H ₁₀ Br ₂		4,39	25	77		
dibromopentane	C ₅ H ₁₀ Br ₂		5,43	25	77		
dibromopentane	C ₅ H ₁₀ Br ₂		6,5	25	77		
dibromopropane	C ₃ H ₆ Br ₂		4,3	20	68		
dibutyl acetylene	C ₁₀ H ₁₈		2,17	25	77		
dibutyl phthalate	C ₁₆ H ₂₂ O ₄		6,436	30	86		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
dibutyl phthalate	C ₁₆ H ₂₂ O ₄		6,436	30	86		
dibutyl sebacate	C ₁₈ H ₃₄ O ₄		4,46	25	77		
dibutyl sebacate	C ₁₈ H ₃₄ O ₄		4,46	25	77		
dibutyl tartrate	C ₁₂ H ₂₂ O ₆		9,4	41	105,8		
dibutyl tartrate	C ₁₂ H ₂₂ O ₆		9,4	41	105,8		
dibutylacetylene	C ₁₀ H ₁₈		2,17	25	77		
dicalcium phosphate			4,6	20	68		
dichloro-1,3-bis-(trifluormethyl) benzene	C ₈ H ₂ Cl ₂ F ₆		3,12	30	86		
dichloro-1,3-bis-(trifluormethyl) benzene	C ₈ H ₂ Cl ₂ F ₆		2,94	60	140		
dichloro-1-methyl benzene	C ₇ H ₆ Cl ₂		8,97	25	77		
dichloro-2-methyl propane	C ₄ H ₈ Cl ₂		7,15	22,8	73,04		
dichloro-2-methyl-propane	C ₄ H ₈ Cl ₂		7,15	22,8	73,04		
dichloro-2-vinyl benzene	C ₈ H ₆ Cl ₂		2,58	25	77		
dichloroacetic acid	C ₂ H ₂ Cl ₂ O ₂		8,22	20	68		
dichloroacetic acid	C ₂ H ₂ Cl ₂ O ₂		7,8	60	140		
dichloroacetic anhydride	C ₄ H ₂ Cl ₄ O ₃		15,8	25	77		
dichloroacetone	C ₃ H ₄ Cl ₂ O		14,6	20	68		
dichloroacetate, ethyl ester	C ₄ H ₆ Cl ₂ O ₂		10,4	20	68		
dichlorobenzene	C ₆ H ₄ Cl ₂		11,13	0	32		
dichlorobenzene	C ₆ H ₄ Cl ₂		9,82	20	68		
dichlorobenzene	C ₆ H ₄ Cl ₂		9,9	50	122		
dichlorobenzene	C ₆ H ₄ Cl ₂		7	58	136,4		
dichlorobenzene	C ₆ H ₄ Cl ₂		5,4	0	32		
dichlorobenzene	C ₆ H ₄ Cl ₂		4,9	20	68		
dichlorobenzene	C ₆ H ₄ Cl ₂		4,7	50	122		
dichlorobenzene	C ₆ H ₄ Cl ₂		4,6	60	140		
dichlorobenzene	C ₆ H ₄ Cl ₂		2,42	55	131		
dichlorobenzene	C ₆ H ₄ Cl ₂		2,62	58	136,4		
dichlorobenzylchloride	C ₇ H ₅ Cl ₃		6,29	25	77		
dichlorobutane	C ₄ H ₈ Cl ₂		8,9	25	77		
dichlorodifluoromethane	CCl ₂ F ₂		1,78	20	68		
dichloroethane	C ₂ H ₄ Cl ₂		10,86	15,8	60,44		
dichloroethane	C ₂ H ₄ Cl ₂		10,46	25	77		
dichloroethane	C ₂ H ₄ Cl ₂		10,6	20	68		
dichloroethane	C ₂ H ₄ Cl ₂		10,37	25	77		
dichloroethene	C ₂ H ₂ Cl ₂		10,36	25	77		
dichloroethene	C ₂ H ₂ Cl ₂		4,67	16	60,8		
dichloroethene	C ₂ H ₂ Cl ₂		4,6	20	68		
dichloroethene	C ₂ H ₂ Cl ₂		10,16	0	32		
dichloroethene	C ₂ H ₂ Cl ₂		9,2	20	68		
dichloroethene	C ₂ H ₂ Cl ₂		9,22	25	77		
dichloroethene	C ₂ H ₂ Cl ₂		2,42	0	32		
dichloroethene	C ₂ H ₂ Cl ₂		2,14	20	68		
dichloroethene	C ₂ H ₂ Cl ₂		2,145	25	77		
dichloroethyl ether	C ₄ H ₈ Cl ₂ O		3,51	20	68		
dichloroethyl ether	C ₄ H ₈ Cl ₂ O		21,1	20	68		
dichloroethylene	C ₂ H ₂ Cl ₂		9,3	60	140		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
dichloromethane	CH ₂ Cl ₂		9,14	20	68		
dichloromethane	CH ₂ Cl ₂		8,93	25	77		
dichloropropane	C ₃ H ₆ Cl ₂		8,93	26	78,8		
dichloropropanol-(2)-nitrate	C ₃ H ₅ Cl ₂ O ₃ N		13,28	20	68		
dichlorostyrol	C ₈ H ₆ Cl ₂		2,58	25	77		
dichlorotetrafluorethane	CCl F ₂ - CCl F ₂		1,83	20	68		
dichlorotoluol	C ₇ H ₆ Cl ₂		6,9	20	68		
dichlorotoluol	C ₇ H ₆ Cl ₂		8,97	25	77		
dichloropropane	C ₃ H ₆ Cl ₂		10,25	18,8	65,84		
dichloropropane	C ₃ H ₆ Cl ₂		11,37	20	68		
dicyclohexyl adipate	C ₁₈ H ₃₀ O ₄		4,84	35	95		
dicyclohexyl adipate	C ₁₈ H ₃₀ O ₄		4,84	35	95		
dicyclopentadiene	C ₁₀ H ₁₂		2,43	40	104		
dienneyl ketone	C ₂₃ H ₄₆ O		2,1	20	68		
dienneyl ketone	C ₂₃ H ₄₆ O		4,05	80	176		
diesel fuel			2,1	20	68		
diethoxyethane	C ₆ H ₁₄ O ₂		3,8	25	77		
diethyl azelate	C ₁₃ H ₂₄ O ₄		5,133	30	86		
diethyl azelate	C ₁₃ H ₂₄ O ₄		4,972	40	104		
diethyl azelate	C ₁₃ H ₂₄ O ₄		5,2	151	303,8		
diethyl carbonate	C ₅ H ₁₀ O ₂		2,82	20	68		
diethyl carbonate	C ₅ H ₁₀ O ₂		2,82	20	68		
diethyl ether	C ₄ H ₁₀ O		4,34	20	68		
diethyl ether	C ₄ H ₁₀ O		4,265	25	77		
diethyl ether	C ₄ H ₁₀ O		3,7	75	167		
diethyl fumarate	C ₈ H ₁₂ O ₄		6,56	23	73,4		
diethyl fumarate	C ₈ H ₁₂ O ₄		6,56	23	73,4		
diethyl glutarate	C ₉ H ₁₆ O ₄		6,659	30	86		
diethyl glutarate	C ₉ H ₁₆ O ₄		6,392	40	104		
diethyl glutarate	C ₉ H ₁₆ O ₄		6,659	30	86		
diethyl glutarate	C ₉ H ₁₆ O ₄		6,392	40	104		
diethyl malate	C ₈ H ₁₄ O ₅		10	18	64,4		
diethyl maleinate	C ₈ H ₁₂ O ₄		8,58	23	73,4		
diethyl malonate	C ₇ H ₁₂ O ₄		8,181	25	77		
diethyl malonate	C ₇ H ₁₂ O ₄		8,045	30	86		
diethyl malonate	C ₈ H ₁₂ O ₄		8,58	23	73,4		
diethyl malonate	C ₇ H ₁₂ O ₄		8,181	25	77		
diethyl malonate	C ₇ H ₁₂ O ₄		8,045	30	86		
diethyl mercury	C ₄ H ₁₀ Hg		2,1	20	68		
diethyl n-decanephosphonate	C ₁₄ H ₃₁ O ₃ P		5,68	32	89,6		
diethyl oxalacetate	C ₈ H ₁₂ O ₅		6	19	66,2		
diethyl oxalate	C ₆ H ₁₀ O ₄		8,08	21	69,8		
diethyl oxalate	C ₆ H ₁₀ O ₄		8,08	21	69,8		
diethyl phthalate	C ₁₂ H ₁₄ O ₄		7,63	20	68		
diethyl phthalate	C ₁₂ H ₁₄ O ₄		7,63	20	68		
diethyl propyl phosphonate	C ₇ H ₁₇ O ₃ P		9,45	30	86		
diethyl sebacate	C ₁₄ H ₂₆ O ₄		4,995	30	86		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
diethyl sebacate	C ₁₄ H ₂₆ O ₄		4,871	40	104		
diethyl sebacate	C ₁₄ H ₂₆ O ₄		4,995	30	86		
diethyl sebacate	C ₁₄ H ₂₆ O ₄		4,871	40	104		
diethyl sebacate	C ₂₄ H ₃₀ O ₄		4,61	25	77		
diethyl silane	C ₄ H ₁₂ Si		2,544	20	68		
diethyl succinate	C ₈ H ₁₄ O ₄		6,636	30	86		
diethyl succinate	C ₈ H ₁₄ O ₄		6,533	40	104		
diethyl sulphide	C ₄ H ₁₀ S		5,96	20	68		
diethyl sulphide	C ₄ H ₁₀ S		5,723	25	77		
diethyl sulphide	C ₄ H ₁₀ S		5,236	50	122		
diethyl sulphide	C ₄ H ₁₀ S		5,96	20	68		
diethyl sulphide	C ₄ H ₁₀ S		5,723	25	77		
diethyl sulphide	C ₄ H ₁₀ S		5,236	50	122		
diethyl suphite, asym.	C ₄ H ₁₀ O ₃ S		41,9	20	68		
diethyl suphite, sym.	C ₄ H ₁₀ O ₃ S		15,6	20	68		
diethyl tartrate	C ₈ H ₁₄ O ₆		4,5	20	68		
diethyl tartrate	C ₈ H ₁₄ O ₆		4,5	20	68		
diethyl zink	C ₄ H ₁₀ Zn		2,55	20	68		
diethylamine	C ₄ H ₁₁ N		3,782	25	77		
diethylaniline	C ₁₀ H ₁₅ N		5,2	20	68		
diethylbenzene	C ₁₀ H ₁₄		2,594	20	68		
diethylbenzene	C ₁₀ H ₁₄		2,565	30	86		
diethylbenzene	C ₁₀ H ₁₄		2,369	20	68		
diethylbenzene	C ₁₀ H ₁₄		2,35	30	86		
diethylbenzene	C ₁₀ H ₁₄		2,259	20	68		
diethylbenzene	C ₁₀ H ₁₄		2,244	30	86		
diethylesterozonid fumarate	C ₈ H ₁₂ O ₇		8,72	23	73,4		
diethylozonide malate	C ₈ H ₁₂ O ₇		8,36	23	73,4		
diethylpentane	C ₉ H ₂₀		1,99	15,5	59,9		
diethylpentane	C ₉ H ₂₀		2	30	86		
dihydrocarvon	C ₁₀ H ₁₆ O		8,53	19	66,2		
diiodmethane	CH ₂ I ₂		5,32	20	68		
diiodomethane	CH ₂ I ₂		4,999	10	50		
diiodomethane	CH ₂ I ₂		5,5	20	68		
diiodomethane	CH ₂ I ₂		5,316	25	77		
diisoamyl ether	C ₁₀ H ₂₂ O		2,817	20	68		
diisoamylamine	C ₁₀ H ₂₃ N		2,5	18	64,4		
diisobutylamine	C ₈ H ₁₉ N		2,65	22	71,6		
diisobutylene	C ₈ H ₁₆		2,09	25	77		
diisopropyl ether	C ₆ H ₁₄ O		3,976	20	68		
diisopropyl ether	C ₆ H ₁₄ O		3,88	25	77		
dijodobenzene	C ₆ H ₄ I ₂		5,7	20	68		
dijodobenzene	C ₆ H ₄ I ₂		4,25	25	77		
dijodobenzene	C ₆ H ₄ I ₂		2,88	120	248		
dimethoxyazoxybenzene	C ₁₄ H ₁₄ O ₃ N ₂		5,3	122	251,6		
dimethoxyethane	C ₄ H ₁₀ O ₂		3,49	20	68		
dimethyl aniline	C ₈ H ₁₁ N		4,9	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
dimethyl aniline	C ₈ H ₁₁ N		5,05	14	57,2		
dimethyl aniline	C ₈ H ₁₁ N		5,02	20	68		
dimethyl aniline	C ₈ H ₁₁ N		4,42	70	158		
dimethyl biphenyl	C ₁₄ H ₁₄		2,519	25	77		
dimethyl ether	C ₂ H ₆ O		5,02	25	77		
dimethyl ether	C ₂ H ₆ O		2,97	110	230		
dimethyl ether	C ₂ H ₆ O		2,37	125	257		
dimethyl ether	C ₂ H ₆ O		4	20	68		
dimethyl malate	C ₆ H ₁₀ O ₅		9,31	20	68		
dimethyl malonate	C ₅ H ₈ O ₄		10,3	20	68		
dimethyl phthalate	C ₁₀ H ₁₀ O ₄		8,5	25	77		
dimethyl phthalate	C ₁₀ H ₁₀ O ₄		8,5	25	77		
dimethyl succinate	C ₆ H ₁₀ O ₄		5,1	20	68		
dimethyl succinate	C ₆ H ₁₀ O ₄		5,1	20	68		
dimethyl sulphate	C ₂ H ₆ O ₄ S		55	20	68		
dimethyl sulphide	C ₂ H ₆ S		6,2	20	68		
dimethyl-5-ethylbenzene	C ₁₀ H ₁₄		2,275	20	68		
dimethyl-5-ethylbenzene	C ₁₀ H ₁₄		2,257	30	86		
dimethylacetamide	C ₄ H ₉ ON		38,93	20	68		
dimethylamine	C ₂ H ₇ N		6,32	0	32		
dimethylamine	C ₂ H ₇ N		5,26	25	77		
dimethylaminotoluene	C ₉ H ₁₃ N		3,4	20	68		
dimethylaminotoluene	C ₉ H ₁₃ N		3,9	20	68		
dimethylbiphenyl	C ₁₄ H ₁₄		2,519	25	77		
dimethylbutadiene-(1,3)	C ₆ H ₁₀		2,099	25	77		
dimethylbutane	C ₆ H ₁₄		1,96	19	66,2		
dimethylbutanone-(2)	C ₆ H ₁₂ O		13,1	14,5	58,1		
dimethylbutanone-(2)	C ₆ H ₁₂ O		12,2	17	62,6		
dimethylchinoxaline	C ₁₀ H ₁₀ N ₂		2,28	25	77		
dimethyldipropylsilane	C ₅ H ₂₀ Si		2,054	20	68		
dimethylformamide	C ₃ H ₇ ON		37,65	20	68		
dimethylheptane	C ₉ H ₂₀		1,89	20	68		
dimethylheptane	C ₉ H ₂₀		1,89	20	68		
dimethylheptane	C ₉ H ₂₀		1,987	20	68		
dimethylheptene-(2)	C ₉ H ₁₈		2,606	20	68		
dimethylheptene-(3)	C ₉ H ₁₈		2,343	20	68		
dimethylhexane	C ₈ H ₁₈		1,949	20	68		
dimethylhexane	C ₈ H ₁₈		1,961	20,8	69,44		
dimethylhexane	C ₈ H ₁₈		1,964	20	68		
dimethylhexane	C ₈ H ₁₈		1,981	18,94	66,092		
dimethylhexene-(2)	C ₈ H ₁₆		2,431	20	68		
dimethylhexene-(2)	C ₈ H ₁₆		2,65	20	68		
dimethyloctane	C ₁₀ H ₂₂		1,98	20	68		
dimethyloctane	C ₁₀ H ₂₂		1,98	20	68		
dimethyloctatriene-(2,4,6)	C ₁₀ H ₁₆		2,557	25	77		
dimethylpentane	C ₇ H ₁₆		1,915	20	68		
dimethylpentane	C ₇ H ₁₆		1,942	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
dimethylpentane	C ₇ H ₁₄		1,917	20	68		
dimethylpentane	C ₇ H ₁₆		1,94	20	68		
dimethylphenol	C ₈ H ₁₀ O		4,8	17	62,6		
dimethyl-p-toluidine	C ₉ H ₁₃ N		3,9	20	68		
dimethylpyrazine	C ₆ H ₈ N ₂		2,436	20	68		
dimethylpyrazine	C ₆ H ₈ N ₂		2,653	35	95		
dimethyltoluidine	C ₉ H ₁₃ N		3,4	20	68		
dinitrile malonate	C ₃ H ₂ N ₂		46,3	32,6	90,68		
dinitrobenzene	C ₆ H ₄ O ₄ N ₂		20,65	90	194		
dinitrogen tetraoxide	N ₂ O ₄		2,56	15	59		
dinitrogen tetraoxide	N ₂ O ₄		2,42	18	64,4		
dinitropropane	C ₃ H ₆ O ₄ N ₂		35	20	68		
dioctyl ketone	C ₁₇ H ₃₄ O		5,3	60	140		
Dioctyl phthalate	C ₂₄ H ₃₈ O ₄		5,1	25	77		
dioctyl phthalate	C ₂₄ H ₃₈ O ₄		5,1	25	77		
dioctyl sebacate	C ₂₆ H ₅₀ O ₄		4,01	26	78,8		
dioctyl sebacate	C ₂₆ H ₅₀ O ₄		4,01	26	78,8		
Diofan			32	20	68		
diinyl ether	(C ₂ H ₃) ₂ O		3,94	20	68		
dioxan	C ₄ H ₈ O ₂		2	20	68		
dioxan	C ₄ H ₈ O ₂		2,24	20	68		
dioxan	C ₄ H ₈ O ₂		2,215	25	77		
dioxopyridin Op 46 toluol-based mother liquor			3,5	20	68		
dioxopyridin Op 48 toluol-based mother liquor			3,43	20	68		
dioxopyridin Op 49 toluol-based mother liquor			3,33	20	68		
dioxopyridin Op 50 toluol-based mother liquor			3,33	20	68		
dioxopyridin Op 51 toluol-based mother liquor			3,16	20	68		
dioxopyridin Op 69 toluol-based mother liquor			3,2	20	68		
dipentene	C ₁₀ H ₁₆		2,3	20	68		
dipentene	C ₁₀ H ₁₆		2,381	25	77		
diphenyl ketone	C ₁₃ H ₁₀ O		13,3	20	68		
diphenyl ketone	C ₁₃ H ₁₀ O		11,4	50	122		
diphenyl methane	C ₁₃ H ₁₂		2,56	20	68		
diphenyl methane	C ₁₃ H ₁₂		5,591	25	77		
diphenylamine	C ₁₂ H ₁₁ N		3,3	52	125,6		
diphenylene oxide	C ₁₂ H ₈ O		3	100	212		
diphenylethane	C ₁₄ H ₁₄		2,47	58	136,4		
diphenylethanedione	C ₁₄ H ₁₀ O ₂		13,04	95	203		
diphenylether	C ₁₂ H ₁₀ O		3,686	20	68		
diphenylether	C ₁₂ H ₁₀ O		3,684	30	86		
diphenylether	C ₁₂ H ₁₀ O		3,614	40	104		
dipotassium phthalate pellets			2,1	20	68		
dipotassium phthalate powder			2,5	20	68		
dipropylamin	C ₆ H ₁₅ N		2,9	20	68		
dipropylether	(C ₃ H ₇) ₂ O		3,3	20	68		
dispersion			25	20	68		
distearin	C ₃₉ H ₇₆ O ₅		3,32	78	172,4		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
distearin	C ₃₉ H ₇₆ O ₅		3,29	82	179,6		
disulphur decafluoride	S ₂ F ₁₀		2,02	20	68		
disulphur decafluoride	S ₂ Cl ₂		4,79	15	59		
disulphur dichloride	S ₂ Cl ₂		5	20	68		
dithane ultra, wettable powder			1,7	20	68		
docosane	C ₂₂ H ₄₆		2	50	122		
docosanol	C ₂₂ H ₄₆ O		2,96	70,8	159,44		
docosanol	C ₂₂ H ₄₆ O		2,95	75,4	167,72		
docosyl bromide	C ₂₂ H ₄₅ Br		3,2	42,7	108,86		
docosyl bromide	C ₂₂ H ₄₅ Br		3,12	55,2	131,36		
docosyl bromide	C ₂₂ H ₄₅ Br		3,1	60,2	140,36		
dodecadimethylsiloxane (n=6)	(C ₂ H ₆ OSi) _n (n=6)		2,59	20	68		
dodecamethylcyclohexasiloxane	C ₁₂ H ₃₆ O ₆ Si ₆		2,59	20	68		
dodecamethylpentasiloxane	C ₁₂ H ₃₆ O ₄ Si ₅		2,46	20	68		
dodecamethylpentasiloxane (n=4)	C ₆ H ₁₈ OSi ₂ (CH ₃) ₃ Si OSi[(CH ₃) ₂ nCH ₃ (n=4)		2,46	20	68		
dodecanamine	C ₁₂ H ₂₇ N		3,13	30	86		
dodecanamine	C ₁₂ H ₂₇ N		3,1	35	95		
dodecane	C ₁₂ H ₂₆		2,01	20	68		
dodecane	C ₁₂ H ₂₆		2	30	86		
dodecanol	C ₁₂ H ₂₆ O		5,703	25,05	77,09		
dodecanol	C ₁₂ H ₂₆ O		6,36	26,7	80,06		
dodecanol	C ₁₂ H ₂₆ O		6,07	32,1	89,78		
dodecanol	C ₁₂ H ₂₆ O		4,56	55	131		
dodecanol	C ₁₂ H ₂₆ O		4	85	185		
dodecanol	C ₁₂ H ₂₆ O		5,703	25,05	77,09		
dodecanol	C ₁₂ H ₂₆ O		6,36	26,7	80,06		
dodecanol	C ₁₂ H ₂₆ O		6,07	32,1	89,78		
dodecanol	C ₁₂ H ₂₆ O		4,56	55	131		
dodecanol	C ₁₂ H ₂₆ O		4	85	185		
dodecyl bromide	C ₁₂ H ₂₅ Br		4,5	-4,9	23,18		
dodecyl bromide	C ₁₂ H ₂₅ Br		4,46	-1	30,2		
dodecyl bromide	C ₁₂ H ₂₅ Br		4,38	6,6	43,88		
dodecyl bromide	C ₁₂ H ₂₅ Br		4,07	25	77		
drilling oil, emulsion			25	20	68		
Durasil F with Karu			1,92	20	68		
durum wheat - noodles		1,92		RT	RT	366	0,366
dust			1,8	20	68		
dust and hair			1,73	20	68		
dust filter 17.4% combustible			6,42	20	68		
dust filter 23% combustible			12,25	20	68		
dust filter 7,7% combustible			3,08	20	68		
dyestuff, dried			1,24	20	68		

E

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
electrofilter dust (Sample 1)			2,23	20	68		
electrofilter dust (Sample 2)			2,93	20	68		
electrofilter dust (Sample 3)			2,93	20	68		
emulphor			4	20	68		
epichlorohydrin	<chem>C3H5ClO</chem>		23	20	68		
epoxy-2,6-dimethyloctene-(7)-01-(6)	<chem>C10H18O2</chem>		5,78	25	77		
E-PVC		1,5		RT	RT	483	0,483
erythrite	<chem>C4H10O4</chem>		28,2	120	248		
Eternit			3,2	20	68		
ethanediamine	<chem>C2H8N2</chem>		15,2	9,7	49,46		
ethanediamine	<chem>C2H8N2</chem>		13,5	26,5	79,7		
ethoxyacetylene	<chem>C4H6O</chem>		8,05	25	77		
ethoxyaniline	<chem>C8H11ON</chem>		7,43	25	77		
ethoxyethyl acetate	<chem>C6H12O3</chem>		7,567	30	86		
ethoxyethyl acetate	<chem>C6H12O3</chem>		7,252	40	104		
ethoxyethyl acetate	<chem>C6H12O3</chem>		6,95	50	122		
ethoxynaphthalene	<chem>C12H12O</chem>		3,3	19	66,2		
ethyl acetate	<chem>C4H8O2</chem>		2,48	-79,15	-110,47		
ethyl acetate	<chem>C4H8O2</chem>		6,002	20	68		
ethyl acetate	<chem>C4H8O2</chem>		6,03	25	77		
ethyl acetate	<chem>C4H8O3</chem>		12,95	30	86		
ethyl acetate	<chem>C4H8O2</chem>		2,48	-75,15	-103,27		
ethyl acetate	<chem>C4H8O2</chem>		6,03	25	77		
ethyl acetoacetate	<chem>C6H10O3</chem>		15	20	68		
ethyl acrylate	<chem>C5H8O2</chem>		4,9	0	32		
ethyl acrylate	<chem>C5H8O2</chem>		4,7	20	68		
ethyl alcohol	<chem>C2H6O</chem>		16,2	20	68		
ethyl alcohol	<chem>C2H6O</chem>		25,9	20	68		
ethyl alcohol	<chem>C2H6O</chem>		25,2	25	77		
ethyl alcohol	<chem>C2H6O</chem>		24,8	30	86		
ethyl alcohol	<chem>C2H6O</chem>		23,2	75	167		
ethyl alcohol	<chem>C2H6O</chem>		25,09	20	68		
ethyl alcohol	<chem>C2H6O</chem>		25,2	25	77		
ethyl alcohol	<chem>C2H6O</chem>		27,8	30	86		
ethyl amylether	<chem>C7H16O</chem>		3,6	23	73,4		
ethyl aniline	<chem>C8H11N</chem>		4,84	25	77		
ethyl aniline	<chem>C8H11N</chem>		5,87	20	68		
ethyl anthranilate	<chem>C9H11O2N</chem>		4,14	25	77		
ethyl benzene	<chem>C8H10</chem>		2,407	20	68		
ethyl benzene	<chem>C8H10</chem>		2,381	30	86		
ethyl benzoate	<chem>C9H10O2</chem>		6,12	15	59		
ethyl benzoate	<chem>C9H10O2</chem>		6,01	20	68		
ethyl benzoate	<chem>C9H10O2</chem>		5,986	25	77		
ethyl benzoate	<chem>C9H10O2</chem>		5,779	40	104		
ethyl benzoylacetate	<chem>C11H12O3</chem>		12,4	20	68		
ethyl bromide	<chem>C2H5Br</chem>		10,23	1	33,8		
ethyl bromide	<chem>C2H5Br</chem>		9,45	18,7	65,66		
ethyl bromide	<chem>C2H5Br</chem>		9,37	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
ethyl bromide	C ₂ H ₅ Br		9,2	25	77		
ethyl bromide	C ₂ H ₅ Br		8,81	boiling point			
ethyl butyrate	C ₆ H ₁₂ O ₂		5,08	18	64,4		
ethyl butyrate	C ₆ H ₁₂ O ₂		5,08	18	64,4		
ethyl carbamate	C ₃ H ₇ O ₂ N		14,24	50	122		
ethyl chloride	C ₂ H ₅ Cl		6,29	170	338		
ethyl chloride	C ₂ H ₅ Cl		6,06	179	354,2		
ethyl chloride	C ₂ H ₅ Cl		4,68	185,5	365,9		
ethyl cinnamic acid	C ₁₁ H ₁₂ O ₂		5,83	15	59		
ethyl cinnamic acid	C ₁₁ H ₁₂ O ₂		5,26	20	68		
ethyl cinnamic acid	C ₁₁ H ₁₂ O ₂		9,462	35	95		
ethyl cinnamic acid	C ₁₁ H ₁₂ O ₂		9,419	40	104		
ethyl crotonate	C ₆ H ₁₀ O ₂		5,4	20	68		
ethyl crotonate	C ₆ H ₁₀ O ₂		5,4	20	68		
ethyl cyanide	C ₃ H ₅ N		27,7	20	68		
ethyl cyclobutane	C ₆ H ₁₂		1,965	20	68		
ethyl cyclopropane	C ₅ H ₁₀		1,933	20	68		
ethyl diethyl phosphonate	C ₆ H ₁₅ O ₃ P		10,65	32	89,6		
ethyl dimethyl phosphonate	C ₄ H ₁₁ O ₃ P		15,89	30	86		
ethyl ethyl salicylate	C ₁₁ H ₁₄ O ₃		7	20	68		
ethyl formate	C ₃ H ₆ O ₂		2,4	-81,3	-114,34		
ethyl formate	C ₃ H ₆ O ₂		9,1	14,5	58,1		
ethyl formate	C ₃ H ₆ O ₄		7,16	25	77		
ethyl formate	C ₃ H ₆ O ₂		2,4	-81,3	-114,34		
ethyl formate	C ₃ H ₆ O ₂		9,1	14,5	58,1		
ethyl formate	C ₃ H ₆ O ₂		7,16	25	77		
ethyl glycol acetate	C ₆ H ₁₂ O ₃		7,567	30	86		
ethyl glycol acetate	C ₆ H ₁₂ O ₃		7,252	40	104		
ethyl glycol acetate	C ₆ H ₁₂ O ₃		6,95	50	122		
ethyl heptene-(3)	C ₉ H ₁₈		2,475	20	68		
ethyl hexane	C ₈ H ₁₈ O		1,961	20	68		
ethyl hydrosulphide	C ₂ H ₆ S		6,912	15	59		
ethyl iodide	C ₂ H ₅ I		7,42	18	64,4		
ethyl iodide	C ₂ H ₅ I		7,64	25	77		
ethyl isoamyl ether	C ₇ H ₁₆ O		3,96	20	68		
ethyl isothiocyanate	C ₃ H ₅ SN		19,6	20	68		
ethyl isothiocyanate	C ₄ H ₅ SN		17,3	17,6	63,68		
ethyl laurate	C ₁₄ H ₂₈ O ₂		3,44	20	68		
ethyl laurate	C ₁₄ H ₂₈ O ₂		3,44	20	68		
ethyl levulate	C ₇ H ₁₂ O ₃		11,9	21	69,8		
ethyl levulinate	C ₇ H ₁₂ O ₃		11,9	21	69,8		
ethyl nitrate	C ₂ H ₅ O ₃ N		19,7	20	68		
ethyl oleate	C ₂₀ H ₃₈ O ₂		3,17	28	82,4		
ethyl palmitate	C ₁₈ H ₃₆ O ₂		3,2	20	68		
ethyl palmitate	C ₁₈ H ₃₆ O ₂		3,07	30	86		
ethyl palmitate	C ₁₈ H ₃₆ O ₂		2,71	104	219,2		
ethyl palmitate	C ₁₈ H ₃₆ O ₂		4,98	154	309,2		
ethyl palmitate	C ₁₈ H ₃₆ O ₂		3,2	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
ethyl palmitate	C ₁₈ H ₃₆ O ₂		3,07	30	86		
ethyl palmitate	C ₁₈ H ₃₆ O ₄		2,71	104	219,2		
ethyl palmitate	C ₁₈ H ₃₆ O ₅		2,46	182	359,6		
ethyl pentane	C ₇ H ₁₆		1,94	20	68		
ethyl pentane-(2)	C ₇ H ₁₄		2,051	20	68		
ethyl pentanol-(3)	C ₇ H ₁₆ O		3,16	20	68		
ethyl pentyl ether	C ₇ H ₁₆ O		3,6	23	73,4		
ethyl propionate	C ₅ H ₁₀ O ₂		5,64	18,5	65,3		
ethyl propionate	C ₅ H ₁₀ O ₂		5,64	18,5	65,3		
ethyl salicylate	C ₉ H ₁₀ O ₃		8,2	20	68		
ethyl salicylate	C ₉ H ₁₀ O ₃		7,99	30	86		
ethyl salicylate	C ₉ H ₁₀ O ₃		7,793	40	104		
ethyl salicylate	C ₉ H ₁₀ O ₃		8,2	20	68		
ethyl salicylate	C ₉ H ₁₀ O ₃		7,99	30	86		
ethyl salicylate	C ₉ H ₁₀ O ₃		7,793	40	104		
ethyl stearate	C ₂₀ H ₄₀ O ₂		2,958	40	104		
ethyl stearate	C ₂₀ H ₄₀ O ₂		2,896	50	122		
ethyl stearate	C ₂₀ H ₄₀ O ₂		2,69	100	212		
ethyl stearate	C ₂₀ H ₄₀ O ₂		2,48	167	332,6		
ethyl stearate	C ₂₀ H ₄₀ O ₂		2,958	40	104		
ethyl stearate	C ₂₀ H ₄₀ O ₂		2,896	50	122		
ethyl stearate	C ₂₀ H ₄₀ O ₂		2,69	100	212		
ethyl stearate	C ₂₀ H ₄₀ O ₂		2,48	167	332,6		
ethyl styrol	C ₁₀ H ₁₄		3,35	25	77		
ethyl thiocyanate	C ₃ H ₅ SN		29,7	20	68		
ethyl toluol	C ₉ H ₁₂		2,36	20	68		
ethyl toluol	C ₉ H ₁₂		2,34	30	86		
ethyl toluol	C ₉ H ₁₂		2,59	20	68		
ethyl toluol	C ₉ H ₁₂		2,56	30	86		
ethyl toluol	C ₉ H ₁₂		2,26	20	68		
ethyl toluol	C ₉ H ₁₂		2,24	25	77		
ethyl toluol	C ₉ H ₁₂		2,23	30	86		
ethyl undecanate	C ₁₃ H ₂₆ O ₂		3,55	20	68		
ethyl valerate	C ₇ H ₁₄ O ₂		4,71	18	64,4		
ethyl valerate	C ₇ H ₁₄ O ₂		4,71	18	64,4		
ethyl-(3-methyl-butyl) ether	C ₇ H ₁₆ O		3,96	20	68		
ethyl-3-methyl pentane	C ₈ H ₁₈		1,98	20	68		
ethylal	C ₅ H ₁₂ O ₂		2,528	0	32		
ethylal	C ₅ H ₁₂ O ₂		2,527	20	68		
ethylamine	C ₂ H ₇ N		6,94	10	50		
ethylamine	C ₂ H ₇ N		6,2	20	68		
ethylamine	C ₂ H ₇ N		6,17	25	77		
ethylbenzylamine	C ₉ H ₁₃ N		4,3	20	68		
ethylendiamine	C ₂ H ₈ N ₂		15,2	9,7	49,46		
ethylendiamine	C ₂ H ₈ N ₂		13,5	26,5	79,7		
ethylene chlorhydrin	C ₂ H ₅ ClOH		25	20	68		
ethylene chlorhydrin	C ₂ H ₅ ClO		25,8	25	77		
ethylene chlorhydrin	C ₂ H ₅ ClO		13,2	132	269,6		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
ethylene chloride methanol			10	20	68		
ethylene chlorohydrine	C ₂ H ₅ ClO		25,8	25	77		
ethylene chlorohydrine	C ₂ H ₅ ClO		13,2	132	269,6		
ethylene dichloride	C ₂ H ₄ Cl ₂		10,6	20	68		
ethylene dichloride	C ₂ H ₄ Cl ₂		10,37	25	77		
ethylene glycol	C ₂ H ₆ O ₂		46,66	15	59		
ethylene glycol	C ₂ H ₆ O ₂		38,66	20	68		
ethylene glycol dimethyl ether	C ₄ H ₁₀ O ₂		3,49	20	68		
ethylene glycol dinitrate	C ₂ H ₄ O ₆ N ₂		28,26	20	68		
ethylene glycol monoacetate	C ₄ H ₈ O ₃		12,95	30	86		
ethylene glycol monomethyl ether	C ₃ H ₈ O ₂		15,95	30	86		
ethylene oxide	C ₂ H ₄ O		13,9	-1	30,2		
ethylethynyl ether	C ₄ H ₆ O		8,05	25	77		
ethylidene chloride	C ₂ H ₄ Cl ₂		10,86	15,8	60,44		
ethylidene chloride	C ₂ H ₄ Cl ₂		10,46	25	77		
ethyl-n-propylanilin	C ₁₁ H ₁₇ N		4,9	20	68		
eugenol	C ₁₀ H ₁₂ O ₂		10,5	30	86		

F

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
Farina de Firanda			2,87	20	68		
Farina de Luzerna			1,87	20	68		
fatty acid			2,1	20	68		
fatty acid condensation product		1,65		RT	RT	534	0,534
fatty acid, dry			1,66	35	95		
fatty alcohol sulphonate			1,12	20	68		
feed lime			2,56	20	68		
fenchone	C ₁₀ H ₁₆ O		12,8	21	69,8		
ferrocell			18,3	20	68		
fertiliser (coarse)		1,2		RT	RT	186	0,186
fertiliser (fine)		1,4		RT	RT	288	0,288
FHC powder			2,96	20	68		
fibre-glass flour, beige		1,6		RT	RT	415	0,415
fibre-glass flour, yellow		1,05		RT	RT	110	0,11
film, chips		1,6		RT	RT	65	0,065
film, chips K1		1,5		RT	RT	340	0,34
film, chips K2		1,8		RT	RT	346	0,346
filter ash			4,3	20	68		
fish solubles			16	20	68		
flax meal			1,39	20	68		
flesh bone meal 40%		1,9		RT	RT	726	0,726
flour, Type 405 wheat flour		2,45		RT	RT	582	0,582
flour, Type 405		2,4		RT	RT	604	0,604
fluorine	F ₂		1,54	20	68		
fluoro-1-methylbenzene	C ₇ H ₇ F		4,22	30	86		
fluoro-1-methylbenzene	C ₇ H ₇ F		3,88	60	140		
fluoro-1-methylbenzene	C ₇ H ₇ F		5,42	30	86		

RT = room temperature

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
fluoro-1-methylbenzene	C ₇ H ₇ F		4,9	60	140		
fluoro-1-methylbenzene	C ₇ H ₇ F		5,86	30	86		
fluoro-1-methylbenzene	C ₇ H ₇ F		5,34	60	140		
fluoro-2-methylbenzene	C ₈ H ₁₁ F		5,89	20	68		
fluorobenzene	C ₆ H ₅ F		6,373	20	68		
fluorobenzene	C ₆ H ₅ F		5,42	25	77		
fluorobenzene	C ₆ H ₅ F		4,76	60	140		
fluoropentane	C ₅ H ₁₁ F		4,242	20	68		
fluorspar			2,5	20	68		
fluorspar		2,5		RT	RT	1726	1,726
fly ash			3,3	20	68		
foam rubber components ByA			5,5	20	68		
foam rubber components ByB			5,6	20	68		
foam rubber flakes, 8 mm grain			1,1	20	68		
foam rubber flakes, 8 mm grain, coated			1,14	20	68		
foamed plastic flakes			1,12	20	68		
formaldehyde dimethyl acetal	C ₃ H ₈ O ₂		2,624	0	32		
formaldehyde dimethyl acetal	C ₃ H ₈ O ₂		2,7	20	68		
formalehyde diethyl acetal	C ₅ H ₁₂ O ₂		2,528	0	32		
formalehyde diethyl acetal	C ₅ H ₁₂ O ₂		2,527	20	68		
formalehyde dimethyl acetal	C ₃ H ₈ O ₂		2,624	0	32		
formalehyde dimethyl acetal	C ₃ H ₈ O ₂		2,7	20	68		
formamide	CH ₃ NO		109	20	68		
formic acid	CH ₂ O ₂		58,5	16	60,8		
formic acid	CH ₂ O ₂		57,9	20	68		
formylphenylethyl acetate	C ₁₁ H ₁₂ O ₃		3	20	68		
Freon 11			1,93	20	68		
Freon 113	CCL F ₂ -CCl ₂ F		1,68	20	68		
Freon 114	CCL F ₂ 'CCl F ₂		1,83	20	68		
Freon 12			1,78	20	68		
Freon 22			6,12	20	68		
Frisier-Creme Brisk			9,67	20	68		
furfural	C ₅ H ₄ O ₂		41,7	20	68		
furfural	C ₅ H ₄ O ₂		41,7	20	68		
furfurane	C ₄ H ₄ O		2,95	25	77		

G

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
gelatine, kibbled		2,1		RT	RT	559	0,559
Genantlin			27,3	20	68		
Genapol			19,4	20	68		
germanium (IV) chloride	GeCl ₄		2,43	25	77		
germanium (IV) chloride	GeCl ₄		2,65	30	86		
glass, cullet			2	20	68		
glass, granulate			4	20	68		
glass, granulate			12,16	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
glucose	C ₆ H ₁₂ O ₆		30	50	122		
glue			2	20	68		
glue powder 2...3% moisture			2,6	20	68		
glue powder 8...10% moisture			3,6	20	68		
glycerine	C ₃ H ₈ O ₃		64,11	-50	-58		
glycerine	C ₃ H ₈ O ₃		48,2	0	32		
glycerine	C ₃ H ₈ O ₃		45,11	14,1	57,38		
glycerine	C ₃ H ₈ O ₃		41,14	20	68		
glycerine	C ₃ H ₈ O ₃		39,22	30	86		
glycerine water			37	20	68		
glycerol	C ₃ H ₈ O ₃		18,8	20	68		
glycerol	C ₃ H ₈ O ₃		13,2	20	68		
glycol	C ₂ H ₄ (OH) ₂		37	20	68		
glycolonitrile	C ₂ H ₃ ON		68	20	68		
glysantin			25	20	68		
grain, maize			3,6	20	68		
grain, meal			3	20	68		
granuform		5,2		RT	RT		
granuform (intern.)		4		RT	RT		
gravel with sand			3,3	20	68		
gravel, smooth		2,6		RT	RT	1500	1,5
grit			2,8	20	68		
guaiacol	C ₇ H ₈ O ₃		11	20	68		
guaiacol	C ₇ H ₈ O ₃		11,5	30	86		
guano (raw phosphate)			2,5	20	68		
gum			1,8	20	68		
gum resin			2,8	20	68		

H

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
hamburger sauce			24	20	68		
Hansa yellow 106			1,25	20	68		
hard wax for cars			2	20	68		
hardener, hardening agent			27,6	20	68		
Harolix compression moulding material			3,3	20	68		
hasel nuts			2,03	20	68		
heated glue			2,26	150	302		
helium	He		1,055	20	68		
hellona, seasoning			2,3	20	68		
heptadecane	C ₁₇ H ₃₆		2,052	25	77		
heptadecane	C ₁₇ H ₃₆		2,047	30	86		
heptadecane	C ₁₇ H ₃₆		2,042	35	95		
heptadecanone-(9)	C ₁₇ H ₃₄ O		5,3	60	140		
heptanal	C ₇ H ₁₄ O		9,07	22	71,6		
heptandiol-(3,4)-diacetate	C ₁₁ H ₂₀ O ₄		6,684	25	77		
heptandiol-(3,4)-diacetate	C ₁₁ H ₂₀ O ₄		5,029	25	77		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
heptane	C ₇ H ₁₆		1,942	20	68		
heptane	C ₇ H ₁₆		1,926	25	77		
heptane	C ₇ H ₁₆		1,91	30	86		
heptanoic acid	C ₇ H ₁₄ O ₂		2,59	71	159,8		
heptanoic acid	C ₇ H ₁₄ O ₂		2,59	71	159,8		
heptanol	C ₇ H ₁₆ O		12,1	22	71,6		
heptanol	C ₇ H ₁₆ O		11,1	25	77		
heptanol	C ₇ H ₁₆ O		9,21	22	71,6		
heptanol	C ₇ H ₁₆ O		6,86	22	71,6		
heptanol	C ₇ H ₁₆ O		6,17	22	71,6		
heptanone	C ₇ H ₁₄ O		12,6	20	68		
heptanone	C ₇ H ₁₄ O		12,43	22	71,6		
heptanone	C ₇ H ₁₄ O		12,6	20	68		
heptanone	C ₇ H ₁₄ O		12,43	22	71,6		
heptanone	C ₇ H ₁₄ O		9,77	22	71,6		
heptanone	C ₇ H ₁₄ O		12,88	22	71,6		
heptanone	C ₇ H ₁₄ O		12,6	20	68		
heptanone	C ₇ H ₁₄ O		12,43	22	71,6		
heptene	C ₇ H ₁₄		2,055	20	68		
heptene	C ₇ H ₁₄		2,071	20	68		
herbicide			1,4	20	68		
hexachlorobutadiene-(1,3)	C ₄ Cl ₆		2,55	20	68		
hexachlorocyclohexane	C ₆ H ₆ Cl ₆		4,7	156	312,8		
hexadecafluoropentane	C ₇ F ₁₆		1,847	16	60,8		
hexadecafluoropentane	C ₇ F ₁₆		1,812	38,4	101,12		
hexadecamethylcycloheptasiloxane	C ₁₀ H ₄₈ O ₈ Si ₆		2,74	20	68		
hexadecamethylcyclotetrasiloxane	(C ₂ H ₆ O ₂ Si) _n		2,74	20	68		
hexadecane	C ₁₆ H ₃₄		2,051	20	68		
hexadecanol-(1)	C ₁₆ H ₃₄ O		3,82	50	122		
hexadecanol-(1)	C ₁₆ H ₃₄ O		3,64	64	147,2		
hexadecanol-(1)	C ₁₆ H ₃₄ O		3,5	70	158		
hexadecanole	C ₁₆ H ₃₄ O		3,82	50	122		
hexadecanole	C ₁₆ H ₃₄ O		3,64	64	147,2		
hexadecanole	C ₁₆ H ₃₄ O		3,5	70	158		
hexadecyl bromide	C ₁₆ H ₃₃ Br		3,8	20	68		
hexadecyl bromide	C ₁₆ H ₃₃ Br		3,68	25	77		
hexadecyl bromide	C ₁₆ H ₃₃ Br		3,66	27,4	81,32		
hexadecyl bromide	C ₁₆ H ₃₃ Br		3,57	40	104		
hexadecyl bromide	C ₁₆ H ₃₃ Br		3,46	55	131		
hexadecyl chloride	C ₁₆ H ₃₃ l		3,504	20	68		
hexadecylamine-(1)	C ₁₆ H ₃₃ N		2,71	55	131		
hexadecyldiethyl phosphonate	C ₂₀ H ₄₃ O ₃ P		4,28	32	89,6		
hexafluoropentane	C ₇ F ₁₆		1,874	16	60,8		
hexafluoropentane	C ₇ F ₁₆		1,812	38,4	101,12		
hexamethylacetone	C ₆ H ₁₈ O		10	14,5	58,1		
hexamethyldisiloxane	C ₆ H ₁₈ OSi ₂ (CH ₃) ₃ Si OSi(CH ₃) ₂ nCH ₃		2,17	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
hexamethyldisiloxane	C ₆ H ₁₈ OSi ₂		2,17	20	68		
hexamethyldisiloxane	C ₆ H ₁₈ OSi ₂		2,13	40	104		
hexane	C ₆ H ₁₄		1,89	20	68		
hexane	C ₆ H ₁₄		1,88	25	77		
hexane	C ₆ H ₁₄		1,87	30	86		
hexane	C ₆ H ₁₄		1,84	75	167		
hexanol	C ₆ H ₁₄ O		13,3	20	68		
hexanol	C ₆ H ₁₄ O		12,5	25	77		
hexanol	C ₆ H ₁₄ O		12,9	30	86		
hexanol	C ₆ H ₁₄ O		8,55	75	167		
hexanol-(1)	C ₆ H ₁₄ O		12,5	25	77		
hexanol-(1)	C ₆ H ₁₄ O		12,9	30	86		
hexanol-(1)	C ₆ H ₁₄ O		8,55	75	167		
hexanone-(2)	C ₆ H ₁₂ O		14,6	14,5	58,1		
hexene	C ₆ H ₁₂		2,05	15	59		
hexene	C ₆ H ₁₂		2,06	20	68		
hibiscus			2,8	20	68		
honey			24	20	68		
honey milk			2,03	20	68		
honey milk			1,5	20	68		
husks			1,6	20	68		
hydrazine	N ₂ H ₄		51,7	0	32		
hydrazine	N ₂ H ₄		52,9	20	68		
hydrazine	N ₂ H ₄		58,5	25	77		
hydrochloric acid	HCl		11,8	-113,2	-171,76		
hydrochloric acid	HCl		10,2	-108	-162,4		
hydrochloric acid	HCl		10,1	-85	-121		
hydrochloric acid	HCl		6,32	-15	5		
hydrochloric acid	HCl		4,6	27,7	81,86		
hydrochloric acid	CrO ₂ Cl ₂		2,6	20	68		
hydrogen	H ₂		1,228	20	68		
hydrogen bromide	HBr		7	-85	-121		
hydrogen bromide	HBr		6,2	-80	-112		
hydrogen bromide	HBr		3,8	24,7	76,46		
hydrogen cyanide	CHN		158	20	68		
hydrogen fluoride	HF		83,6	0	32		
hydrogen iodide	HI		2,88	-50	-58		
hydrogen iodide	HI		2,9	22	71,6		
hydrogen peroxide, 45.9% aqueous	H ₂ O ₂		84,7	18	64,4		
hydrogen peroxide, 99.2% aqueous	H ₂ O ₂		84,9	0	32		
hydrogen peroxide, 99.45% aqueous	H ₂ O ₂		89,2	0	32		
hydrogen peroxide, pure	H ₂ O ₂		84,2	0	32		
hydrogen sulphide	H ₂ S		9,26	-85,5	-121,9		
hydrogen sulphide	H ₂ S		8,99	-78,6	-109,48		
hydrogen sulphide	H ₂ S		8,04	-61,2	-78,16		
hydrogen sulphide	H ₂ S		5,93	10	50		
hydrogen superoxide, 30%	H ₂ O ₂		11	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
hydroxymethylbenzylalcohol	C ₇ H ₁₄ O		9,7	60	140		
hydroxymethylbenzylalcohol	C ₇ H ₁₄ O		8,05	80	176		
hydroxymethylbenzylalcohol	C ₇ H ₁₄ O		7,1	95	203		

I

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
ice cream			16,5	-20	-4		
ilmenite	FeTiO ₃		10,2	20	68		
imidazol, pure	C ₃ H ₄ N ₂		23	90	194		
imidazol, pure	C ₃ H ₄ N ₂		22,9	110	230		
imidazol, pure	C ₃ H ₄ N ₂		22,7	120	248		
imidazol, pure	C ₃ H ₄ N ₂		22,5	130	266		
imidazol, pure	C ₃ H ₄ N ₂		22,3	140	284		
indanol	C ₉ H ₁₀ O		7,725	40	104		
indanol	C ₉ H ₁₀ O		7,1	60	140		
indanol	C ₉ H ₁₀ O		6,415	90	194		
indanol	C ₉ H ₁₀ O		7,826	60	140		
indanol	C ₉ H ₁₀ O		7,1	80	176		
indanol	C ₉ H ₁₀ O		6,735	90	194		
indanol	C ₉ H ₁₀ O		7,225	80	176		
insulation paste Gilbatherm Comp. A			7	20	68		
insulation paste Gilbatherm Comp. B			11	20	68		
iodine	I ₂		11,1	20	68		
iodine pentafluoride	IF ₅		38,7	12	53,6		
iodine pentafluoride	IF ₆		36,2	25	77		
iodine pentafluoride	IF ₇		33,2	40	104		
iodo-1-methylbenzene	C ₇ H ₇ I		4,4	35	95		
iodo-1-methylbenzene	C ₇ H ₇ I		4,4	35	95		
iodo-2-methylbutane	C ₅ H ₁₁ I		8,192	20	68		
iodo-2-methylpropane	C ₄ H ₉ I		6,47	20	68		
iodo-2-methylpropane	C ₄ H ₉ I		8,42	-33	-27,4		
iodo-2-methylpropane	C ₄ H ₉ I		10,5	20	68		
iodo-3-methylbutane	C ₅ H ₁₁ I		5,6	19	66,2		
iodobenzene	C ₆ H ₅ I		4,625	20	68		
iodobenzene	C ₆ H ₅ I		5,22	30	86		
iodobenzene	C ₆ H ₅ I		4,92	58	136,4		
iodobenzene	C ₆ H ₅ I		4,87	75	167		
iodobutane	C ₄ H ₉ I		6,29	20	68		
iodobutane	C ₄ H ₉ I		7,87	20	68		
iodododecane	C ₁₂ H ₂₅ I		3,93	20	68		
iodododecane	C ₁₂ H ₂₅ I		3,93	20	68		
iodododecane	C ₁₂ H ₂₅ I		3,93	20	68		
iodoethyl propionate	C ₅ H ₉ O ₂		8,6	20	68		
iodoheptane	C ₇ H ₁₅ I		4,969	20	68		
iodoheptane	C ₇ H ₁₅ I		4,9	22	71,6		
iodoheptane	C ₇ H ₁₅ I		6,39	22	71,6		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
iodohexadecane	C ₁₆ H ₃₃ I		3,504	20	68		
iodohexane	C ₆ H ₁₃ I		5,366	20	68		
iodooctane	C ₈ H ₁₇ I		4,67	20	68		
iodooctane	C ₈ H ₁₇ I		4,62	25	77		
iodooctane	C ₈ H ₁₇ I		5,77	20	68		
iodopentane	C ₅ H ₁₁ I		5,811	20	68		
iodopentane	C ₅ H ₁₁ I		7,432	20	68		
iodopentane	C ₅ H ₇ I		7	20	68		
iodopentane	C ₅ H ₇ I		8,194	20	68		
iodopentane	C ₅ H ₁₁ I		5,811	20	68		
iodopropene	C ₃ H ₅ I		6,1	19	66,2		
ionone	C ₁₃ H ₂₀ O		10,78	19,2	66,56		
ionone	C ₁₃ H ₂₀ O		11,65	24,5	76,1		
iron (III) oxide, red	Fe ₂ O ₃		1,9	20	68		
iron crystals 703 035 b ? 2...6 mm			34	20	68		
iron granulate			21	20	68		
iron pentacarbonyl	C ₅ FeO ₅		2,602	20	68		
iron silicide			10	20	68		
isoamyl acetate	C ₇ H ₁₄ O ₂		4,789	25	77		
isoamyl acetate	C ₇ H ₁₄ O ₂		4,539	30	86		
isoamyl acetate	C ₇ H ₁₄ O ₂		4,414	40	104		
isoamyl acetate	C ₇ H ₁₄ O ₂		4,789	25	77		
isoamyl acetate	C ₇ H ₁₄ O ₂		4,539	30	86		
isoamyl acetate	C ₇ H ₁₄ O ₂		4,414	40	104		
isoamyl alcohol	C ₅ H ₁₂ O		15,64	20	68		
isoamyl alcohol	C ₅ H ₁₂ O		13,9	22,4	72,32		
isoamyl alcohol	C ₅ H ₁₂ O		14,6	25	77		
isoamyl alcohol, isopentanol	C ₅ H ₁₂ O		15,64	20	68		
isoamyl alcohol, isopentanol	C ₅ H ₁₂ O		13,9	22,4	72,32		
isoamyl alcohol, isopentanol	C ₅ H ₁₂ O		14,6	25	77		
isoamyl butyrate	C ₉ H ₁₈ O ₂		4	20	68		
isoamyl butyrate	C ₉ H ₁₈ O ₂		4	20	68		
isoamyl iodide	C ₅ H ₁₁ I		5,6	19	66,2		
isoamyl propionate	C ₈ H ₁₆ O ₂		4,2	20	68		
isoamyl propionate	C ₈ H ₁₆ O ₂		4,2	20	68		
isoamyl salicylate	C ₁₂ H ₁₆ O ₃		5,4	20	68		
isoamyl salicylate	C ₁₂ H ₁₆ O ₃		5,4	20	68		
isoamyl valerate	C ₁₀ H ₂₀ O ₂		3,6	20	68		
isoamyl valerate	C ₁₀ H ₂₀ O ₂		3,6	20	68		
isobutyl acetate	C ₆ H ₁₂ O ₂		5,26	19,5	67,1		
isobutyl alcohol	C ₄ H ₇ OH		15,8	20	68		
isobutyl alcohol	C ₄ H ₁₀ O		18,08	20	68		
isobutyl alcohol	C ₄ H ₁₀ O		17,24	25	77		
isobutyl alcohol	C ₄ H ₁₀ O		15,691	30	86		
isobutyl benzene	C ₁₀ H ₁₄		2,319	20	68		
isobutyl benzene	C ₁₀ H ₁₄		2,298	30	86		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
isobutyl benzene	C ₉ H ₁₀		7,18	25	77		
isobutyl benzoate	C ₁₁ H ₁₄ O ₂		5,43	18	64,4		
isobutyl butyrate	C ₈ H ₁₆ O ₂		4,1	20	68		
isobutyl butyrate	C ₈ H ₁₆ O ₂		4,1	20	68		
isobutyl chloride	C ₄ H ₉ Cl		6,54	15	59		
isobutyl cyanide	C ₅ H ₉ N		17,95	22	71,6		
isobutyl formate	C ₅ H ₁₀ O ₂		6,41	19	66,2		
isobutyl iodide	C ₄ H ₉ I		6,47	20	68		
isobutyl nitrate	C ₄ H ₉ O ₃ N		11,7	19	66,2		
isobutyl silane	C ₄ H ₁₂ Si		2,497	20	68		
isobutyl valerate	C ₉ H ₁₈ O ₂		3,8	20	68		
isobutylamine	C ₄ H ₁₁ N		4,4	21	69,8		
isobutylbenzoate	C ₁₁ H ₁₄ O ₂		5,43	18	64,4		
isobutyric acid	C ₄ H ₈ O ₂		2,71	10	50		
isobutyric acid	C ₄ H ₈ O ₂		2,6	20	68		
isobutyric acid	C ₄ H ₈ O ₂		2,58	25	77		
isobutyric acid	C ₄ H ₈ O ₂		2,73	40	104		
isobutyric anhydride	C ₈ H ₁₄ O ₃		13,6	20	68		
isobutyronitrile	C ₄ H ₇ N		20,4	24	75,2		
isocyanate			6,1	20	68		
isodipropyl ether	(C ₃ H ₇) ₂ O		3,88	20	68		
isobutyl valerate	C ₉ H ₁₈ O ₂		3,8	20	68		
isomenthone	C ₁₀ H ₁₈ O		11,8	-35	-31		
isomenthone	C ₁₀ H ₁₈ O		8,8	18	64,4		
isopentane	C ₅ H ₁₂		1,87	0	32		
isopentane	C ₅ H ₁₂		1,843	20	68		
isoprene	C ₅ H ₈		2,1	20	68		
isopropanol	C ₃ H ₈ O		18,62	20	68		
isopropanol	C ₃ H ₈ O		18	25	77		
isopropanol	C ₃ H ₈ O		18,62	20	68		
isopropanol	C ₃ H ₈ O		18,3	25	77		
isopropanol-methanol			23,5	20	68		
isopropyl benzaldehyde	C ₁₀ H ₁₂ O		10,68	15	59		
isopropyl benzene	C ₉ H ₁₂		2,37	17	62,6		
isopropyl benzene	C ₉ H ₁₂		2,4	20	68		
isopropyl benzene	C ₉ H ₁₂		2,36	30	86		
isopropyl bromide	C ₃ H ₇ Br		16,7	-85,6	-122,08		
isopropyl bromide	C ₃ H ₇ Br		15,8	-81,8	-115,24		
isopropyl bromide	C ₃ H ₇ Br		9,46	25	77		
isopropyl cyanide	C ₄ H ₇ N		20,1	24	75,2		
isopropyl iodide	C ₃ H ₇ I		8,194	20	68		
isopropyl nitrite	C ₃ H ₇ O ₂ N		12	19	66,2		
isopropylamine	C ₃ H ₉ N		5,45	20	68		
isopropylbenzaldehyde	C ₁₀ H ₁₂ O		10,68	15	59		
isopropylbenzene	C ₉ H ₁₂		2,37	17	62,6		
isopropylbenzene	C ₉ H ₁₂		2,4	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
isopropyl-diethyl phosphonate	C ₇ H ₁₇ O ₃ P		8,48	30	86		
isoquinoline	C ₉ H ₇ N		10,7	25	77		
isosaflor	C ₁₀ H ₁₆ O ₂		3,33	20	68		
isovaleric acid	C ₅ H ₁₀ O ₂		2,74	20	68		
isovaleric nitrile	C ₅ H ₉ N		17,95	22	71,6		
iron III sulphate, hydrated	FeO ₄ S ₇ H ₂ O		32,4	80	176		

J

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
javanol, seasoning			2,46	20	68		

K

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
KA pellets, brown		2,6		RT	RT		
Kadina			6,3	20	68		
kaolin with karu			2,17	20	68		
Karion			14,6	20	68		
Kasinat milk powder, dry			1,6	20	68		
kieselgur			1,4	20	68		
Kirone-Creme			17,4	20	68		
kogasin			2,379	20	68		
kogasin common solvent			4,44	20	68		

L

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
lacquer			4,06	20...80	68...176		
lacquer			3,3	20	68		
lacquer B 205			4,3	20	68		
lactic acid	C ₃ H ₆ O ₃		22	17	62,6		
lactonitrile	C ₃ H ₅ ON		37,7	20	68		
lanolin			4,2	20	68		
lard			2,1	80	176		
latex			31	20	68		
latex (Co. Buna)			24	20	68		
latex with chalk			23	20	68		
latex, synthetic			16	25	77		
lauroxyl peroxide			1,5	20	68		
lead tetrachloride	PbCl ₄		2,78	20	68		
leaven (sauerteig)			not measurable	20	68		
Leinsaat-Expeller 3381			2	20	68		
Lentan V 64-144			27,8	20	68		
Lewatit M 500			15,3	20	68		
Lewatit S 100			17,6	20	68		
lime granulate			4	20	68		

Nomenclature	formula	DK at 1 MHZ	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
lime powder			3,3	20	68		
lime, carbon-dioxide process			3,1	20	68		
lime, Münster		1,8		RT	RT	536	0,536
lime, phosphoric acid			5	20	68		
lime, slaked - dolomite		1,8		RT	RT	432	0,432
lime, slaked, 4 weeks old			2,17	20	68		
lime, slaked, refined			4	20	68		
limonene	C ₁₀ H ₁₆		2,36	20	68		
limonene	C ₁₀ H ₁₇		2,37	25	77		
linol waste			2	20	68		
linoleic acid	C ₁₈ H ₃₂ O ₂		2,61	0	32		
linoleic acid	C ₁₈ H ₃₂ O ₂		2,71	20	68		
linoleic acid	C ₁₈ H ₃₂ O ₂		2,7	70	158		
linoleic acid	C ₁₈ H ₃₂ O ₂		2,6	120	248		
linolenic acid	C ₁₈ H ₃₀ O ₂		2,55	-10	14		
linolenic acid	C ₁₈ H ₃₀ O ₂		2,76	20	68		
linolenic acid	C ₁₈ H ₃₀ O ₂		2,97	60	140		
linolenic acid	C ₁₈ H ₃₀ O ₂		3,01	100	212		
lipolytic fatty acids			2,9	20	68		
liquid paraffin			2	20	68		
l-limonene	C ₁₀ H ₁₆		2,37	25	77		
Lonton V64-144			27,8	20	68		
Lupolen			1,33	20	68		
Lupolen 1812 E 413			1,6	20	68		
lutosol			29,28	20	68		
lye (brewing 3/65)			28	20	68		

M

Nomenclature	formula	DK at 1 MHZ	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
magnesite, Probe I			2,1	20	68		
magnesite, Probe II			1,65	20	68		
magnesite, synth. 10-15% moisture			10,1	20	68		
maize grits		2,05		RT	RT	493	0,493
maize meal			3,3	20	68		
maize starch (shaken)		2,65		RT	RT	679	0,679
maize starch syrup			18,4	20	68		
maleic anhydride	C ₄ H ₂ O ₃		50	60	140		
maleic anhydride	C ₄ H ₂ O ₃		2,1	20	68		
malt			2,7	20	68		
malt 10% moisture			5,55	20	68		
malt 20% moisture			5,92	20	68		
malt 4...4.5% moist+C633			2,3	20	68		
malt germ			2,38	20	68		
malt, dried			2,2	20	68		
mandelonitrile	C ₈ H ₇ ON		17,82	23	73,4		
manganese carbonate			2,33	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
manganese heptoxide	Mn ₂ O ₇		3,28	20	68		
mannitol	C ₆ H ₁₄ O ₆		24,6	170	338		
Mansalox			5,33	20	68		
marble chips, grain size 2-3 mm		2,5		RT	RT	1585	1,585
marzistella, seasoning			2,43	20	68		
matrix			1,9	20	68		
m-chlorotoluene	C ₇ H ₇ Cl		5,55	20	68		
m-cresole	C ₇ H ₈ O		12,95	16	60,8		
m-cresole	C ₇ H ₈ O		12,29	25	77		
m-cresole	C ₇ H ₈ O		11,237	30	86		
m-cresole	C ₇ H ₈ O		9,32	50	122		
m-cresole	C ₇ H ₈ O		9,68	58	136,4		
m-dichlorobenzene	C ₆ H ₄ Cl ₂		5,04	20	68		
meal SM2			3,6	20	68		
meal SMO			3,6	20	68		
meal, corned			3,2	20	68		
meat meal			2,87	20	68		
meat meal			1,87	20	68		
meat meal 60%		1,7		RT	RT	611	0,611
menthol	C ₁₀ H ₂₀ O		3,95	42	107,6		
menthol	C ₁₀ H ₂₀ O		3,95	42	107,6		
mesitylene	C ₆ H ₃ (CH ₃) ₃		2,27	20	68		
metal powder			6	20	68		
methalyalanine	C ₇ H ₉ N		5,96	20	68		
methalyimine	CH ₅ N		11,41	-10	14		
methalyimine	CH ₅ N		11,3	0	32		
methalyimine	CH ₅ N		9,4	25	77		
methane	CH ₄		1,68	-161,5	-258,7		
methanol	CH ₄ O		37,92	0	32		
methanol	CH ₄ O		34,05	10	50		
methanol	CH ₄ O		33,58	20	68		
methanol	CH ₄ O		32,66	25	77		
methanol	CH ₄ O		37,92	0	32		
methanol	CH ₄ O		34,05	10	50		
methanol	CH ₄ O		33,58	20	68		
methanol	CH ₄ O		32,66	25	77		
methanol, impure	CH ₄ O		20,4	20	68		
methanol, old 3622	CH ₄ O		25	20	68		
methl chloride	CH ₃ Cl		12,6	-20	-4		
methoxy-4-methylphenol	C ₈ H ₁₀ O ₂		11	16	60,8		
methoxy-4-methylphenol	C ₈ H ₁₀ O ₂		11	16	60,8		
methoxybenzaldehyde	C ₈ H ₈ O ₂		22,3	20	68		
methoxybenzaldehyde	C ₈ H ₈ O ₂		10,4	248	478,4		
methoxyethanol	C ₃ H ₈ O ₂		15,95	30	86		
methoxyethylstearate	C ₂₁ H ₄₂ O ₃		3,387	50	122		
methoxymethylbenzoate	C ₉ H ₁₀ O ₃		7,7	20	68		
methoxytoluol	C ₈ H ₁₀ O		3,57	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
methoxytoluol	C ₈ H ₁₀ O		4,08	20	68		
methoxytoluol	C ₈ H ₁₀ O		4,03	20	68		
methyl 4-methylbenzoate	C ₉ H ₁₀ O ₂		4,3	33	91,4		
methyl acetate	C ₃ H ₆ O ₂		2,58	-77,3	-107,14		
methyl acetate	C ₃ H ₆ O ₂		8,02	19,5	67,1		
methyl acetate	C ₃ H ₆ O ₂		6,68	25	77		
methyl acetate	C ₃ H ₆ O ₂		6,606	30	86		
methyl acetate	C ₃ H ₆ O ₂		6,385	40	104		
methyl acetate	C ₃ H ₆ O ₂		2,58	-77,3	-107,14		
methyl acetate	C ₃ H ₆ O ₂		8,02	19,5	67,1		
methyl acetate	C ₃ H ₆ O ₂		6,68	25	77		
methyl acetate	C ₃ H ₆ O ₂		6,606	30	86		
methyl acetate	C ₃ H ₆ O ₂		6,385	40	104		
methyl acetophenonoxal	C ₁₁ H ₁₀ O ₄		12,8	70	158		
methyl benzoate	C ₈ H ₈ O ₂		6,72	10	50		
methyl benzoate	C ₈ H ₈ O ₂		6,633	20	68		
methyl benzoate	C ₈ H ₈ O ₂		6,459	30	86		
methyl benzoate	C ₈ H ₈ O ₂		6,251	40	104		
methyl benzoate	C ₈ H ₈ O ₂		6,59	20	68		
methyl bromide	CH ₃ Br		15,7	-78	-108,4		
methyl bromide	CH ₃ Br		10,6	0	32		
methyl butane	C ₅ H ₁₂		1,87	0	32		
methyl butane	C ₅ H ₁₂		1,843	20	68		
methyl butyrate	C ₅ H ₁₀ O ₂		5,6	20	68		
methyl butyrate	C ₅ H ₁₀ O ₂		5,6	20	68		
methyl cellulose		3,1		RT	RT		
methyl chlorformate	C ₂ H ₃ ClO ₂		11	20	68		
methyl chloride	CH ₃ Cl		9,82	20	68		
methyl chloroform	C ₂ H ₃ Cl ₃		7,2	20	68		
methyl cyanide	C ₂ H ₃ N		37,5	20	68		
methyl formate	C ₂ H ₄ O ₂		2,56	-78,65	-109,57		
methyl formate	C ₂ H ₄ O ₂		8,37	20	68		
methyl formate	C ₂ H ₄ O ₂		2,56	-78,65	-109,57		
methyl formate	C ₂ H ₄ O ₂		8,37	20	68		
methyl heptane	C ₈ H ₁₈		1,951	20	68		
methyl heptanol-(1)	C ₈ H ₁₈ O		2,884	17	62,6		
methyl heptanol-(1)	C ₈ H ₁₈ O		2,85	25	77		
methyl heptanol-(1)	C ₈ H ₁₈ O		4,63	17	62,6		
methyl heptanol-(1)	C ₈ H ₁₈ O		4,37	25	77		
methyl heptanol-(1)	C ₈ H ₁₈ O		7,1	25	77		
methyl heptanol-(2)	C ₈ H ₁₈ O		3,46	25	77		
methyl heptanol-(2)	C ₈ H ₁₈ O		7,47	16	60,8		
methyl heptanol-(2)	C ₈ H ₁₈ O		7,16	25	77		
methyl heptanol-(2)	C ₈ H ₁₈ O		3,65	17	62,6		
methyl heptanol-(2)	C ₈ H ₁₈ O		3,58	25	77		
methyl heptanol-(2)	C ₈ H ₁₈ O		5,16	20	68		
methyl heptanol-(2)	C ₈ H ₁₈ O		4,95	25	77		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
methyl heptanol-(2)	C ₈ H ₁₈ O		3,45	19	66,2		
methyl heptanol-(3)	C ₈ H ₁₈ O		3,44	25	77		
methyl heptanol-(3)	C ₈ H ₁₈ O		3,7	15	59		
methyl heptanol-(3)	C ₈ H ₁₈ O		3,76	25	77		
methyl heptanol-(3)	C ₈ H ₁₈ O		7,46	17	62,6		
methyl heptanol-(3)	C ₈ H ₁₈ O		7,18	25	77		
methyl heptanol-(3)	C ₈ H ₁₈ O		5,31	17	62,6		
methyl heptanol-(3)	C ₈ H ₁₈ O		5,15	25	77		
methyl heptanol-(3)	C ₈ H ₁₈ O		7,68	17	62,6		
methyl heptanol-(3)	C ₈ H ₁₈ O		7,5	5	41		
methyl heptanol-(3)	C ₈ H ₁₈ O		6,2	18	64,4		
methyl heptanol-(3)	C ₈ H ₁₈ O		6	25	77		
methyl heptanol-(3)	C ₈ H ₁₈ O		10,54	17	62,6		
methyl heptanol-(3)	C ₈ H ₁₈ O		9,8	25	77		
methyl heptanol-(3)	C ₈ H ₁₈ O		6,41	17	62,6		
methyl heptanol-(3)	C ₈ H ₁₈ O		5,9	25	77		
methyl heptanol-(3)	C ₈ H ₁₈ O		5,56	17	62,6		
methyl heptanol-(3)	C ₈ H ₁₈ O		5,4	25	77		
methyl heptanol-(4)	C ₈ H ₁₈ O		3,36	25	77		
methyl heptanol-(4)	C ₈ H ₁₈ O		2,92	25	77		
methyl heptene-(2)	C ₈ H ₁₆		2,436	20	68		
methyl hexane	C ₇ H ₁₆		1,92	20	68		
methyl hexane	C ₇ H ₁₆		1,93	20	68		
methyl iodide	CH ₃ I		7,1	20,4	68,72		
methyl iodide	CH ₃ I		6,48	boiling point			
methyl iodide	CH ₃ I		7	20	68		
methyl isothiocyanate	C ₂ H ₃ SN		19,7	37	98,6		
methyl isothiocyanate	C ₂ H ₃ SN		11	20	68		
methyl naphthalin	C ₁₁ H ₁₀		2,73	16	60,8		
methyl naphthalin	C ₁₁ H ₁₀		2,68	25	77		
methyl nitrate	CH ₃ ON ₃		23,5	18	64,4		
methyl propionate	C ₄ H ₈ O ₂		5,5	19	66,2		
methyl propyl-1-acetate	C ₆ H ₁₂ O ₂		5,26	19,5	67,1		
methyl propyl-1-formate	C ₅ H ₁₀ O ₂		6,41	19	66,2		
methyl propylketoxim	C ₅ H ₁₁ ON		3,3	20	68		
methyl salicylate	C ₈ H ₈ O ₃		9,533	25	77		
methyl salicylate	C ₈ H ₈ O ₃		9,433	30	86		
methyl salicylate	C ₈ H ₈ O ₃		9,129	40	104		
methyl salicylate	C ₈ H ₈ O ₃		9,533	25	77		
methyl salicylate	C ₈ H ₈ O ₃		9,443	30	86		
methyl salicylate	C ₈ H ₈ O ₃		9,129	40	104		
methyl thiocyanate	C ₂ H ₃ SN		35,9	20	68		
methyl valerate	C ₆ H ₁₂ O ₂		4,3	19	66,2		
methyl valerate	C ₆ H ₁₂ O ₂		4,3	19	66,2		
methyl-1,3-butadiene	C ₅ H ₈		2,098	25	77		
methyl-1-butanol	C ₅ H ₁₂ O		15,64	20	68		
methyl-1-butanol	C ₅ H ₁₂ O		13,9	22,4	72,32		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
methyl-1-butanol	C ₅ H ₁₂ O		14,6	25	77		
methyl-1-butene	C ₅ H ₁₀		2,197	20	68		
methyl-1-phenylhydrazine	C ₇ H ₁₀ N ₂		7,3	19	66,2		
methyl-2-butanol	C ₅ H ₁₂ O		5,82	20	68		
methyl-2-butanol	C ₅ H ₁₂ O		6,695	30	86		
methyl-2-butanol	C ₅ H ₁₂ O		6,443	40	104		
methyl-2-butanol	C ₅ H ₁₂ O		5,69	25	77		
methyl-2-butanone	C ₅ H ₁₀ O		12,4	24	75,2		
methyl-2-ethylbenzene	C ₉ H ₁₂		2,59	20	68		
methyl-2-ethylbenzene	C ₉ H ₁₂		2,56	30	86		
methyl-2-ethylbenzene	C ₉ H ₁₂		2,36	20	68		
methyl-2-propanol	C ₄ H ₉ OH		10,9	20	68		
methyl-3,5-diethylbenzene	C ₁₁ H ₁₆		2,264	20	68		
methyl-3,5-diethylbenzene	C ₁₁ H ₁₆		2,251	30	86		
methyl-3-ethylbenzene	C ₉ H ₁₂		2,34	30	86		
methyl-3-penten-2-one	C ₆ H ₁₀ O		15,6	0	32		
methyl-3-penten-2-one	C ₆ H ₁₀ O		15,1	20	68		
methyl-3-tert.-butyl benzene	C ₁₁ H ₁₆		2,33	20	68		
methyl-3-tert.-butyl benzene	C ₁₁ H ₁₆		2,313	30	86		
methyl-4-ethylbenzene	C ₉ H ₁₂		2,26	20	68		
methyl-4-ethylbenzene	C ₉ H ₁₂		2,24	25	77		
methyl-4-ethylbenzene	C ₉ H ₁₂		2,25	30	86		
methyl-4-isopropylbenzene	C ₁₀ H ₁₄		2,253	20	68		
methyl-4-isopropylbenzene	C ₁₀ H ₁₄		2,23	25	77		
methyl-4-isopropylbenzene	C ₁₀ H ₁₄		2,236	30	86		
methyl-4-isopropylbenzene	C ₁₀ H ₁₄		2,27	boiling point			
methyl-4-nonene	C ₁₀ H ₂₀		2,175	20	68		
methyl-4-tert.-butyl benzene	C ₁₁ H ₁₆		2,25	20	68		
methyl-4-tert.-butyl benzene	C ₁₁ H ₁₆		2,234	30	86		
methyl-6-vinyl heptadiene-(1,5)	C ₁₀ H ₁₆		2,3	25	77		
methylacetamide	C ₃ H ₇ ON		175,7	30,5	86,9		
methylal	C ₃ H ₈ O ₂		2,624	0	32		
methylal	C ₃ H ₈ O ₂		2,7	20	68		
methylamide ethyl carbonate	C ₄ H ₉ O ₂ N		24,3	20	68		
methylanthranilate	C ₈ H ₉ O ₂ N		3,72	25	77		
methylbenzenamine	C ₈ H ₁₁ N		4,4	19	66,2		
methylbenzonitrile	C ₈ H ₇ N		18,4	23	73,4		
methylbutanol	C ₅ H ₁₁ OH		14,7	20	68		
methylcyclohexane	C ₇ H ₁₄		2,26	-129	-200,2		
methylcyclohexane	C ₇ H ₁₄		2,02	20	68		
methylcyclohexane	C ₇ H ₁₄		2,071	24,8	76,64		
methylcyclohexanol-(2)	C ₇ H ₁₄ O		13,3	20	68		
methylcyclohexanol-(2)	C ₇ H ₁₄ O		11,04	30	86		
methylcyclohexanol-(2)	C ₇ H ₁₄ O		9,239	40	104		
methylcyclohexanol-(2)	C ₁₀ H ₁₆		2,3	25	77		
methylcyclohexanol-(3)	C ₇ H ₁₄ O		12,34	20	68		
methylcyclohexanol-(3)	C ₇ H ₁₄ O		11,63	30	86		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
methylcyclohexanol-(3)	C ₇ H ₁₄ O		11,03	35	95		
methylcyclohexanol-(4)	C ₇ H ₁₄ O		13,3	20	68		
methylcyclohexanol-(4)	C ₇ H ₁₄ O		11,99	30	86		
methylcyclohexanol-(4)	C ₇ H ₁₄ O		11,48	35	95		
methylcyclohexanone-(2)	C ₇ H ₁₂ O		16,4	-15	5		
methylcyclohexanone-(2)	C ₇ H ₁₂ O		14	20	68		
methylcyclohexanone-(3)	C ₇ H ₁₂ O		18,2	-89	-128,2		
methylcyclohexanone-(3)	C ₇ H ₁₂ O		12,4	20	68		
methylcyclohexanone-(4)	C ₇ H ₁₂ O		15,7	-41	-41,8		
methylcyclohexanone-(4)	C ₇ H ₁₂ O		12,35	20	68		
methylcyclopentane	C ₅ H ₉ CH ₃ (C ₆ H ₁₂)		1,985	20	68		
methyl-cyclopentanol-(1)	C ₆ H ₁₂ O		6,97	34,6	94,28		
methyl-cyclopentanol-(1)	C ₆ H ₁₂ O		6,88	40	104		
methyldiethyl phosphonate	C ₅ H ₁₃ O ₃ P		13,4	30	86		
methyldiisopropyl phosphonate	C ₇ H ₁₇ O ₃ P		8,06	30	86		
methyldimethyl phosphonate	C ₃ H ₉ O ₃ P		20,68	30	86		
methylene chloride	CH ₂ Cl ₂		9,08	20	68		
methylene chloride-methanol			15,5	20	68		
methyleneglycol dimethyl ether	C ₃ H ₈ O ₂		2,624	0	32		
methyleneglycol dimethyl ether	C ₃ H ₈ O ₂		2,7	20	68		
methylethyl carbonate	C ₄ H ₈ O ₃		2,985	20	68		
methylethyl carbonate	C ₄ H ₈ O ₃		2,985	20	68		
methylethyl ketone	C ₄ H ₈ O		20,3	0	32		
methylethyl ketone	C ₄ H ₈ O		18,5	20	68		
methylethyl ketone	C ₄ H ₈ O		18,35	30	86		
methylethyl ketone	C ₄ H ₈ O		17,64	40	104		
methylethyl ketone (MEK)	C ₄ H ₈ O		2	20	68		
methylethyl ketone (MEK-S)	C ₄ H ₈ O		1,93	20	68		
methylethylcarbamate	C ₄ H ₉ O ₂ N		24,3	20	68		
methylformamide	C ₂ H ₅ ON		190,5	20	68		
methylhexene-(2)	C ₇ H ₁₄		2,962	20	68		
methylhexylketone	C ₈ H ₁₆ O		10,39	20	68		
methylisobutylketone	C ₆ H ₁₂ O		13,11	20	68		
methyl-iso Eugenol	C ₁₁ H ₁₄ O ₂		4,65	18,5	65,3		
methyl-iso Eugenolozonide	C ₁₁ H ₁₄ O ₅		6,04	23	73,4		
methylisopropyl ketone	C ₅ H ₁₀ O		12,4	24	75,2		
methylmaleic anhydride	C ₅ H ₄ O ₃		39,5	20	68		
Methyl-n-butylketon	C ₆ H ₁₂ O		14,6	14,5	58,1		
methyl-n-butyric acid	C ₅ H ₁₀ O ₂		2,74	20	68		
methyl-n-propylketone	C ₅ H ₁₀ O		15,45	20	68		
methyloctane	C ₉ H ₂₀		1,967	20	68		
methyloctane	C ₉ H ₂₀		1,967	20	68		
methylpentadiene-(1,3)	C ₆ H ₁₀		2,422	25	77		
methylpentadiene-(1,3)	C ₆ H ₁₀		2,426	25	77		
methylpentadiene-(1,3)	C ₆ H ₁₀		3,161	-75	-103		
methylpentadiene-(1,3)	C ₆ H ₁₀		2,599	25	77		
methylpentadiene-(1,3)	C ₆ H ₁₀		2,491	50	122		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
methylpentandiol-2,4	C ₆ H ₁₄ O ₂		23,4	30	86		
methylpentane	C ₆ H ₁₄		1,907	20	68		
methylpentanol-(3)	C ₆ H ₁₄ O		4,098	10	50		
methylpentanol-(3)	C ₆ H ₁₄ O		4,322	20	68		
methylpentanone-(2)	C ₆ H ₁₂ O		13,11	20	68		
methylpenten-(3)-on-(2)	C ₆ H ₁₀ O		15,1	20	68		
methylpentene-(3)-on-(2)	C ₆ H ₁₀ O		15,6	0	32		
methylphenylketone	C ₈ H ₈ O		17,39	25	77		
methylpropanamide	C ₄ H ₉ ON		179,8	20	68		
methylpropanoic acid	C ₄ H ₈ O ₂		5,5	19	66,2		
methylpropanoic acid	C ₄ H ₈ O ₂		2,71	10	50		
methylpropanoic acid	C ₄ H ₈ O ₂		2,6	20	68		
methylpropanoic acid	C ₄ H ₈ O ₂		2,58	25	77		
methylpropanoic acid	C ₄ H ₈ O ₂		2,73	40	104		
methylpropanoic acid anhydride	C ₈ H ₁₄ O ₃		13,6	20	68		
methylpropanol-(1)	C ₄ H ₁₀ O		18,08	20	68		
methylpropanol-(1)	C ₄ H ₁₀ O		17,24	25	77		
methylpropanol-(1)	C ₄ H ₁₀ O		15,691	30	86		
methylpropanol-(2)	C ₄ H ₁₀ O		12,27	26	78,8		
methylpropanol-(2)	C ₄ H ₁₀ O		12,02	27,8	82,04		
methylpropanol-(2)	C ₄ H ₁₀ O		11,23	30	86		
methylpropanol-(2)	C ₄ H ₁₀ O		9,55	42,1	107,78		
methylpropanol-(2)	C ₄ H ₁₀ O		8,49	50,5	122,9		
methylpropanol-(2)	C ₄ H ₁₀ O		6,96	60	140		
methylpyridine	C ₆ H ₇ N		9,8	20	68		
methyl-tert.-butyl ketone, pinacolin	C ₆ H ₁₂ O		13,1	14,5	58,1		
methyl-tert.-butyl ketone, pinacolin	C ₆ H ₁₂ O		12,2	17	62,6		
microstone dust			1,5	20	68		
middlings			2,22	20	68		
Milana Kinder whole meal corn			1,86	20	68		
milk of lime, 15 %			17,8	20	68		
Milumit			1,6	20	68		
Milupa oats, dry gluten			1,69	20	68		
m-nitrotoluol	C ₆ H ₄ NO ₂ CH ₃		23,8	20	68		
molasses			33,3	20	68		
molasses			31,3	20	68		
monoammonium phosphate 99/100%			5,3	20	68		
monochlorobenzene	C ₆ H ₅ Cl		5,708	20	68		
monomyristin	C ₁₇ H ₃₄ O ₄		6,1	70	158		
monopalmitin	C ₁₉ H ₃₈ O ₄		5,34	67,1	152,78		
monopalmitin	C ₁₉ H ₃₈ O ₄		5,09	80,1	176,18		
monostearin	C ₂₁ H ₄₂ O ₄		4,87	77,1	170,78		
monostearin	C ₂₁ H ₄₂ O ₄		4,71	89,1	192,38		
morpholin	C ₄ H ₉ ON		7,33	25	77		
moulding compound, Harolix			3,3	20	68		
moulding sand			2,5	20	68		
moulding sand			23,7	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
m-toluidine	C ₇ H ₉ N		5,95	20	68		
m-toluidine	C ₇ H ₉ N		5,45	58	136,4		
muclage			23,1	20	68		
mustard oil	C ₃ H ₅ NCS		17,2	20	68		
m-xylene	C ₈ H ₁₀		2,367	20	68		
m-xylene	C ₈ H ₁₀		2,368	25	77		
m-xylene	C ₈ H ₁₀		2,347	30	86		
xylene	C ₈ H ₁₀		2,367	20	68		
xylene	C ₈ H ₁₀		2,368	25	77		
m-xylene	C ₈ H ₁₀		2,347	30	86		
m-xylol	C ₈ H ₁₀		2,367	20	68		
m-xylol	C ₈ H ₁₀		2,368	25	77		
m-xylol	C ₈ H ₁₀		2,347	30	86		

N

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
naphthalene	C ₁₀ H ₈		2,54	20	68		
naphthalene	C ₁₀ H ₈		2,54	90	194		
naphthenic acid			2,6	20	68		
naphthoethyl ester	C ₁₂ H ₁₂ O		3,3	20	68		
naphthyl nitrile	C ₁₁ H ₇ N		19,2	22	71,6		
naphthyl nitrile	C ₁₁ H ₇ N		16	70	158		
naphthyl nitrile	C ₁₁ H ₇ N		16,9	70	158		
n-butyl formate	C ₅ H ₁₀ O ₂		2,43	-78,7	-109,66		
NC95		8		RT	RT		
neat soap			28	20	68		
NiFe ore filte dust	NiFe	2,4		RT	RT	1420	1,42
nitric acid 97 % HNO ₃	HNO ₃		33,6	20	68		
nitric acid 98 % HNO ₃	HNO ₃		19	20	68		
nitroaniline	C ₆ H ₆ O ₂ N ₂		34,53	90	194		
nitroaniline	C ₆ H ₆ O ₂ N ₂		34,16	100	212		
nitroaniline	C ₆ H ₆ O ₂ N ₂		33,96	110	230		
nitroaniline	C ₆ H ₆ O ₂ N ₂		56,27	160	320		
nitroaniline	C ₆ H ₆ O ₂ N ₂		55,61	170	338		
nitroaniline	C ₆ H ₆ O ₂ N ₂		55,06	180	356		
nitroanisol	C ₇ H ₈ O ₃ N		23,8	19,8	67,64		
nitrobenzaldoxime	C ₇ H ₆ O ₃ N ₂		59,3	117,5	243,5		
nitrobenzaldoxime	C ₇ H ₆ O ₃ N ₂		48,1	120	248		
nitrobenzene	C ₆ H ₅ O ₂ N		35,32	20	68		
nitrobenzene	C ₆ H ₅ O ₂ N		34,67	25	77		
nitrobenzene trifluoride	C ₇ H ₄ F ₃ O ₂ N		17	30	86		
nitrobenzyl alcohol	C ₇ H ₇ O ₃ N		22	20	68		
nitroethane	C ₂ H ₅ O ₂ N		29,5	18	64,4		
nitroethane	C ₂ H ₅ O ₂ N		28	20	68		
nitroethylbenzene	C ₈ H ₉ O ₂ N		21,9	0,2	32,36		
nitrogen	N ₂		1,445	-198,4	-325,12		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
nitrogen	N ₂		1,454	-194,7	-318,46		
nitrogen monoxide	N ₂ O		1,63	5	41		
nitrogen monoxide	N ₂ O		1,52	15	59		
nitrogen, liquid	N ₂		1,3	-190	-310		
nitroglycerin	C ₃ H ₅ O ₉ N ₃		19,25	20	68		
nitromethane	CH ₃ O ₂ N		38,57	20	68		
nitromethane	CH ₃ O ₂ N		35,87	30	86		
nitrophenol	C ₆ H ₅ O ₃ N		17,34	50	122		
nitrophenol	C ₆ H ₅ O ₃ N		16,7	60	140		
nitrophoska			5,4	20	68		
nitropropane	C ₃ H ₇ O ₂ N		23,24	30	86		
nitropropane	C ₃ H ₇ O ₂ N		25,52	30	86		
nitrosin, seasoning			1,7	20	68		
nitrosyl bromide	NOBr		15,2	13,4	56,12		
nitrosyl chloride	NOCl		22,5	-27,5	-17,5		
nitrosyl chloride	NOCl		21,4	-19,5	-3,1		
nitrosyl chloride	NOCl		19,7	-10	14		
nitrosyl chloride	NOCl		18,2	12	53,6		
nitrotoluol	C ₇ H ₇ O ₂ N		27,4	20	68		
nitrotoluol	C ₇ H ₇ O ₂ N		26,07	25	77		
nitrotoluol	C ₇ H ₇ O ₂ N		21,61	58	136,4		
nitrotoluol	C ₇ H ₇ O ₂ N		21,86	58	136,4		
nitrotoluol	C ₇ H ₇ O ₂ N		22,2	58	136,4		
nitrous oxide, laughing gas	N ₂ O		1,63	5	41		
nitrous oxide, laughing gas	N ₂ O		1,52	15	59		
nonane	C ₉ H ₂₀		1,972	20	68		
nonane	C ₉ H ₂₀		1,974	25	77		
nonane	C ₉ H ₂₀		1,959	30	86		
monox flakes			1,75	20	68		
nonyl bromide	C ₉ H ₁₉ Br		5,53	-28,3	-18,94		
nonyl bromide	C ₉ H ₁₉ Br		5,44	-21,5	-6,7		
nonyl bromide	C ₉ H ₁₉ Br		5,37	-16	3,2		
nonyl bromide	C ₉ H ₁₉ Br		4,74	25	77		
nonyl bromide	C ₉ H ₁₉ Br		5,53	-28,3	-18,94		
nonyl bromide	C ₉ H ₁₉ Br		5,44	-21,5	-6,7		
nonyl bromide	C ₉ H ₁₉ Br		5,37	-16	3,2		
nonyl bromide	C ₉ H ₁₉ Br		4,74	25	77		
nylon chips			1,82	20	68		
nylon pellets			1,13	20	68		

O

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
oats 11...14 % moisture			4,9	20	68		
o-chlorotoluene	C ₆ H ₄ ClCH ₃		4,45	20	68		
o-cresole	C ₇ H ₈ O		11,479	25	77		
o-cresole	C ₇ H ₈ O		10,937	30	86		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
o-cresole	C ₇ H ₈ O		6,02	58	136,4		
o-cresylmethyl ether	C ₈ H ₁₀ O		3,57	20	68		
octadecanol-(1)	C ₁₈ H ₃₈ O		3,42	57,8	136,04		
octadecanol-(1)	C ₁₈ H ₃₈ O		3,35	68,3	154,94		
octadecanol-(1)	C ₁₈ H ₃₈ O		3,124	85	185		
octadecyl bromide	C ₁₈ H ₃₇ Br		3,53	30,2	86,36		
octadecyl bromide	C ₁₈ H ₃₇ Br		3,52	32,4	90,32		
octadecyl bromide	C ₁₈ H ₃₇ Br		3,4	58,4	137,12		
octadecyl diethyl phosphonate	C ₂₂ H ₃₇ O ₃ P		4,05	32	89,6		
octadecylamin	C ₁₈ H ₃₉ N		2,67	53	127,4		
octadecylamin	C ₁₈ H ₃₉ N		2,64	58	136,4		
octamethyl cyclotetrasiloxane	C ₈ H ₂₄ NO ₄ Si ₄		2,39	20	68		
octamethyl cyclotetrasiloxane (n=4)	(C ₈ H ₁₆ OSi) _n		2,39	20	68		
octamethyl trisiloxane	C ₈ H ₂₄ NO ₂ Si ₃		2,3	20	68		
octamethyl trisiloxane	C ₈ H ₁₈ OSi ₂ (CH ₃) ₃ Si [OSi(CH ₃) ₂] _n CH ₃		2,3	20	68		
octane	C ₈ H ₁₈		1,962	20	68		
octane	C ₈ H ₁₈		1,948	25	77		
octane	C ₈ H ₁₈		1,935	30	86		
octanol-(1)	C ₈ H ₁₈ O		10,34	20	68		
octanol-(1)	C ₈ H ₁₈ O		9,85	25	77		
octanol-(1)	C ₈ H ₁₈ O		9,34	32,1	89,78		
octanol-(2)	C ₈ H ₁₈ O		8,68	15,7	60,26		
octanol-(2)	C ₈ H ₁₈ O		7,7	25	77		
octanol-(3)	C ₈ H ₁₈ O		7,26	15,2	59,36		
octanol-(3)	C ₈ H ₁₈ O		6,8	25	77		
octanol-(4)	C ₈ H ₁₈ O		5,26	16,6	61,88		
octanol-(4)	C ₈ H ₁₈ O		5	25	77		
octanon-(2)	C ₈ H ₁₆ O		10,39	20	68		
octene	C ₈ H ₁₆		2,175	12,6	54,68		
octene	C ₈ H ₁₆		2,084	20	68		
octyl amine	C ₈ H ₁₉ N		4,05	2	35,6		
octyl amine	C ₈ H ₁₉ N		3,9	12,3	54,14		
octyl bromide	C ₈ H ₁₇ Br		6,37	-51	-59,8		
octyl bromide	C ₈ H ₁₇ Br		6,29	-42	-43,6		
octyl bromide	C ₈ H ₁₇ Br		6,15	-39	-38,2		
octyl bromide	C ₈ H ₁₇ Br		5	25	77		
octyl chloride	C ₈ H ₁₇ Cl		5,05	25	77		
octyl iodide	C ₈ H ₁₇ I		4,67	20	68		
octyl iodide	C ₈ H ₁₇ I		4,62	25	77		
octyl phthalat			4,8	20	68		
octyldiethylphosphonate	C ₁₂ H ₂₇ O ₃ P		6,29	32	89,6		
o-dichlorobenzene	C ₆ H ₄ Cl ₂		9,93	20	68		
o-dimethyl salicylate	C ₉ H ₁₀ O ₃		7,7	20	68		
oil			2,04...3	20	68		
oil / DEA 124			2,38	20	68		
oil B1			5,95	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
oil B3			4,15	20	68		
oil D8			6,83	50	122		
oil seed corn dust			1,9	20	68		
oil seed corn dust			1,9	20	68		
oil, heating			2,1	20	68		
oil, compound			28,2	20	68		
oil, compound, dry			2,42	20	68		
oil, compound, wet			2,44	20	68		
oil, conserve+C2733			2,4	20	68		
oil, fish			2,6	20	68		
oil, heavy			2,2	20	68		
oil, heavy			2,2	20	68		
oil, Mobil			2,3	20	68		
oil, Mobil			2,3	20	68		
oil, motor			2,6	20	68		
oil, motor			2,6	20	68		
oil, non-conductive			3	20	68		
oil, SAE 90			2,16	10	50		
oil, SAE 90			2,18	60	140		
oil, transformer			2,1	20	68		
oil/water mixture			24,16	20	68		
oleic acid	<chem>C18H34O2</chem>		2,46	20	68		
oleic acid	<chem>C18H34O2</chem>		2,43	21,9	71,42		
oleic acid butyl ester	<chem>C22H42O2</chem>		4	25	77		
oleic acid ethyl ester	<chem>C20H38O2</chem>		3,17	28	82,4		
olein (oleic acid)			1,9	20	68		
o-methylethyl salicylate	<chem>C10H12O3</chem>		7,7	20	68		
o-nitroaniline	<chem>C6H4NO2NH2</chem>		34,5	20	68		
o-nitromethylbenzoate	<chem>C8H7O4N</chem>		27,76	26,9	80,42		
o-nitrophenol	<chem>C6H4NO2OH</chem>		17,3	20	68		
o-nitrotoluol	<chem>C6H4NO2CH3</chem>		27,4	20	68		
organic bulk solid			1,7	20	68		
organic foil			33	20	68		
o-toluidine	<chem>C7H9N</chem>		6,34	18	64,4		
o-toluidine	<chem>C7H9N</chem>		5,71	58	136,4		
oxalpropionate	<chem>C9H14O5</chem>		8,9	19	66,2		
oxalyi chloride	<chem>C2CL2O2</chem>		3,47	21,2	70,16		
oxophthalane	<chem>C8H6O2</chem>		36	75	167		
oxy-4-methyl pentanone-(2)			18,2	20	68		
oxyacetone	<chem>C3H6O2</chem>		3,59	21	69,8		
oxygen	<chem>O2</chem>		1,505	20	68		
oxy-heptadecene-(8)-carbonic acid-(1)-isobutyl ester	<chem>C22H42O3</chem>		4,7	21	69,8		
o-xylene	<chem>C8H10 / C6H4(CH3)2</chem>		2,574	20	68		
o-xylene	<chem>C8H10 / C6H4(CH3)2</chem>		2,51	25	77		
o-xylene	<chem>C8H10 / C6H4(CH3)2</chem>		2,544	30	86		
o-xylol	<chem>C8H10</chem>		2,571	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
o-xylol	C ₈ H ₁₀		2,51	25	77		
o-xylol	C ₈ H ₁₀		2,544	30	86		
oxymethyl cyanide	C ₂ H ₃ ON		68	20	68		
oxymethylene camphor	C ₁₁ H ₁₆ O ₂		12,4	97	206,6		
oxymethylenemalonate	C ₈ H ₁₄ O ₅		6,5	22	71,6		
oxymethylenephenethyl acetate	C ₁₁ H ₁₂ O ₃		4,9	20	68		

P

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
PA granulate, black		1,7		RT	RT	646	0,646
paint			4,9	20	68		
paint (black)			4,4	20	68		
Palatal P6 (polyester)			6,52	20	68		
Pallmann chips (wood, moist)			2,3	20	68		
palm nut expeller			2	20	68		
palm nut meal			3,2	20	68		
palm nut oil			2,8	20	68		
palm nuts			2,2	20	68		
palm oil			1,75	20	68		
palmitic acid	C ₁₆ H ₃₂ O ₂		2,3	20	68		
palmitic acid	C ₁₆ H ₃₂ O ₃		2,395	63	145,4		
palmitic acid	C ₁₆ H ₃₂ O ₄		2,24	70	158		
palmitic acid	C ₁₆ H ₃₂ O ₅		2,402	75	167		
paper shavings			1,2	20	68		
Para		2,3		RT	RT		
paraffin flakes			1,5	20	68		
paraldehyde	C ₆ H ₁₂ O ₃		15,06	20	68		
pastry, croissant			2,3	20	68		
p-chlorotoluene	C ₇ H ₇ ClCH ₃		6,08	20	68		
p-cresole	C ₇ H ₈ O		9,91	58	136,4		
p-cymene	C ₁₀ H ₁₄		2,23	25	77		
p-cymene	C ₁₀ H ₁₄		2,236	30	86		
p-dichlorobenzene	C ₆ H ₄ Cl ₂		2,41	20	68		
PE chips		1,3		RT	RT	467	0,467
PE granulat, white (polyethylene)		1,3		RT	RT	625	0,625
PE powder, non-stabilised		1,4		RT	RT	434	0,434
PE, powder,		1,6		RT	RT	642	0,642
peanut expeller			2,35	20	68		
peanuts, dried			3,1	20	68		
Pelargon			2,84	20	68		
pellets			2,1	20	68		
pentaborane	B ₅ H ₉		53,1	-46	-50,8		
pentaborane	B ₅ H ₉		32,6	-12	10,4		
pentaborane	B ₅ H ₉		21,1	24	75,2		
pentachloroethane	C ₂ HCl ₅		3,97	10	50		
pentachloroethane	C ₂ HCl ₅		3,833	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
pentachlorotoluole	C ₇ H ₃ Cl ₅		4,8	20	68		
pentadecanoic acid	C ₁₅ H ₃ (C ₁₅ H ₃₀)		2,045	20	68		
pentadecyl bromide	C ₁₅ H ₃₁ Br		3,88	20	68		
pentadiene	C ₅ H ₈		2,32	25	77		
pentamethylchlorobenzene	C ₁₁ H ₁₅ Cl		5,8	20	68		
pentamethylcyclopentasiloxane	C ₅ H ₂₀ OSi ₅		2,74	20	68		
pentanal	C ₅ H ₁₀ O		11,76	15	59		
pentandiol-(2,3)-diacetate	C ₉ H ₁₆ O ₄		6,734	25	77		
pentandiol-(2,3)-diacetate	C ₉ H ₁₆ O ₄		5,228	25	77		
pentandione	C ₅ H ₈ O ₂		23	20	68		
pentane	C ₅ H ₁₂		1,844	20	68		
pentane	C ₅ H ₁₂		1,843	25	77		
pentane	C ₅ H ₁₂		1,82	30	86		
pentanol	C ₅ H ₁₂ O		16,7	13,8	56,84		
pentanol	C ₅ H ₁₂ O		14,8	20	68		
pentanol	C ₅ H ₁₂ O		14,4	25	77		
pentanol	C ₅ H ₁₂ O		14,17	20	68		
pentanol	C ₅ H ₁₂ O		14,02	20	68		
pentanone	C ₅ H ₁₀ O		17	15	59		
pentanone	C ₅ H ₁₀ O		15,45	20	68		
pentanone	C ₅ H ₁₀ O		17	15	59		
pentanone	C ₂ H ₅ COC ₂ H ₅		17	20	68		
pentanone-(2)-oxim	C ₅ H ₁₁ ON		3,3	20	68		
pentanthiol	C ₅ H ₁₂ S		4,547	25	77		
pentanthiol	C ₅ H ₁₂ S		4,23	50	122		
pentene	C ₅ H ₁₀		2,2	16	60,8		
pentene	C ₅ H ₁₁		1,92	20	68		
pentene	C ₅ H ₁₂		1,889	25	77		
pentene	C ₅ H ₁₀		2,2	16	60,8		
pentene	C ₅ H ₁₀		1,92	20	68		
pentene	C ₅ H ₁₀		1,889	25	77		
pentene	C ₅ H ₁₀		2,1	20	68		
pentyl formate	C ₆ H ₁₂ O ₂		5,61	19	66,2		
pentyl formate	C ₆ H ₁₂ O ₂		6,49	25	77		
pentyl mercaptan	C ₅ H ₁₂ S		4,547	25	77		
pentyl mercaptan	C ₅ H ₁₂ S		4,23	50	122		
perchlorate			3,56	20	68		
perlite			1,7	20	68		
perlite			1,83	20	68		
perlite (silicate)		1,1		RT	RT	51	0,051
perlite 833, coarse			3,1	20	68		
perlite 833, fine			4,3	20	68		
perlite EU 70		3,8		RT	RT		
perlite, powder		1,1		RT	RT	40	0,04
perlon, granulate, dry			2,16	20	68		
perlon, granulate, moist			6,1	20	68		
perlon, shavings			2,5	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
perseitol	C ₇ H ₁₆ O ₇		27,4	20	68		
PET, powder			1,53	20	68		
petrol			2,4	20	68		
Pfanni-Püree (mashed potato)			2,38	20	68		
phenanthrene	C ₁₄ H ₁₀		2,72	110	230		
phenetidine (para)	C ₈ H ₁₁ ON		7,43	25	77		
phenetol	C ₈ H ₁₀ O		4,37	15	59		
phenetol	C ₈ H ₁₀ O		4,22	20	68		
phenetol	C ₈ H ₁₀ O		4,13	30	86		
phenol	C ₆ H ₆ O		3,3	120	248		
phenol	C ₆ H ₆ O		8	18	64,4		
phenol	C ₆ H ₆ O		11,4	40	104		
phenol	C ₆ H ₆ O		10,28	50	122		
phenol	C ₆ H ₆ O		9,8	60	140		
phenol	C ₆ H ₆ O		8,13	90	194		
phenol creasol resin			18,3	20	68		
phenol resin			7,4	20	68		
phenothzin, phenothiazine			1,86	22	71,6		
phenoxyacetylene	C ₈ H ₆ O		4,76	25	77		
phenoxyacetylene	C ₈ H ₆ O		4,76	25	77		
phenyl acetaldehyde	C ₈ H ₈ O		4,78	20	68		
phenyl acetate	C ₈ H ₈ O ₂		5,23	20	68		
phenyl acetic acid	C ₈ H ₈ O ₂		4	85	185		
phenyl acetonitrile	C ₈ H ₇ N		18,4	20	68		
phenyl acetylene	C ₈ H ₆		2,98	25	77		
phenyl butane	C ₁₀ H ₁₄		2,364	20	68		
phenyl butane	C ₁₀ H ₁₄		2,345	30	86		
phenyl cyanide	C ₇ H ₅ N (C ₇ H ₅ CN)		25,58	20	68		
phenyl cyanide	C ₇ H ₅ N (C ₇ H ₅ CN)		25,2	25	77		
phenyl ethanol-(1)	C ₈ H ₁₀ O		8,9	20	68		
phenyl ethanol-(1)	C ₈ H ₁₀ O		12,31	20	68		
phenyl ethyl acetate	C ₁₀ H ₁₂ O ₂		5,29	20	68		
phenyl isocyanate	C ₇ H ₅ ON		8,8	20	68		
phenyl isothiocyanate	C ₇ H ₅ NS		10,4	20	68		
phenyl propene-(1)	C ₉ H ₁₀		2,73	20	68		
phenyl propene-(2)	C ₉ H ₁₀		2,28	20	68		
phenyl propene-(2)	C ₉ H ₁₀		2,63	20	68		
phenyl salicylate	C ₁₃ H ₁₀ O ₃		6,4	42	107,6		
phenyl salicylate, Salol	C ₁₃ H ₁₀ O ₃		6,4	42	107,6		
phenyl-2-methyl propane	C ₁₀ H ₁₄		2,319	20	68		
phenyl-2-methyl propane	C ₁₀ H ₁₄		2,298	30	86		
phenyl-2-methyl propane	C ₁₀ H ₁₄		2,366	20	68		
phenyl-2-methyl propane	C ₁₀ H ₁₄		2,346	30	86		
phenylethyl acetate	C ₁₀ H ₁₂ O ₂		4,28	15	59		
phenylethyl ketone	C ₉ H ₁₀ O		15,5	17	62,6		
phenylhydrazine	C ₆ H ₈ N ₂		7,2	20	68		
phenylhydrazine	C ₆ H ₈ N ₂		7,15	23	73,4		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
phenylhydrazine	C ₆ H ₈ N ₂		7,106	25	77		
phenyl-propandion-(1,3)-methyl carbonate-(1)	C ₁₁ H ₁₀ O ₄		12,8	70	158		
phenylpropanon-(1)	C ₉ H ₁₀ O		15,5	17	62,6		
phosgene	CCl ₂ O		4,79	0	32		
phosgene	CCl ₂ O		4,34 ±0,02	22	71,6		
phosphala gel			32	20	68		
phosphate	PO ₄		4	20	68		
phosphine	PH ₃		2,6	-50	-58		
phosphine	PH ₃		2,9	15	59		
phosphorus pentachloride	PCl ₅		2,85	160	320		
phosphorus pentachloride	PCl ₅		2,7	165	329		
phosphorus salt			4	20	68		
phosphorus sulphochloride	PSCl ₃		5,8	21,5	70,7		
phosphorus tribromide	PBr ₃		3,9	20	68		
phosphorus trichloride	PCl ₃		3,5	17	62,6		
phosphorus trichloride	PCl ₃		3,43	20	68		
phosphorus trichloride	PCl ₃		4,7	22	71,6		
phosphorus triiodode	PI ₃		4,12	65	149		
phosphorus, liquid	P		3,85	20	68		
phosphorus, liquid	P		4	47	116,6		
phosphoryl chloride	POCl ₃		12,7	22	71,6		
phosphoryl chloride	POCl ₃		13,3	20	68		
phthalic anhydride	C ₈ H ₄ O ₃		1,55	20	68		
phthalic anhydride, crystalline			34,6	20	68		
picoline	C ₆ H ₇ N		9,94	20	68		
pinacolone	C ₈ H ₁₂ O		13,1	14,5	58,1		
pinacolone	C ₈ H ₁₂ O		12,2	17	62,6		
pinane	C ₁₀ H ₁₈		2,145	25	77		
pinene	C ₁₀ H ₁₆		2,64	20	68		
pinene	C ₁₀ H ₁₆		2,76	20	68		
piperidine	C ₅ H ₁₁ N		5,8	20	68		
pitch, powdered			1,66	25	77		
pitch, thickened			1,42	25	77		
pitch, thickened			1,43	40	104		
pitch, thickened			1,45	50	122		
pitch, thinned			2,8	90	194		
pitch, thinned			2,9	100	212		
pitch, thinned			3,1	120	248		
pitch, viscous			1,5	20	68		
pitch, viscous			2,2	70	158		
pitch, viscous			2,6	80	176		
plaiting dust			4,2	20	68		
plaster		3,4		RT	RT		
plaster		1,9		RT	RT	966	0,966
plaster			1,8	20	68		
plaster, 3352 a			2,05	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
plaster, 3352 b			1,95	20	68		
plaster, 3352 c			2,7	20	68		
plaster, 3352 d			1,95	20	68		
plaster, 3396 a			1,75	20	68		
plaster, 3396 b			2,1	20	68		
plaster, Peolite			2,23	20	68		
plastic chippings			1,53	20	68		
plastic dust PU		1,09		RT	RT	78	0,078
plastic granulate			1,2	20	68		
plastic granulate			1,9	180	356		
plastic granulate 18004/white/922			1,5	20	68		
plastic granulate ABS		1,72		RT	RT	634	0,634
plastic granulate Elana			1,8	20	68		
plastic granulate LDPE MFI 0.3		1,45		RT	RT	559	0,559
plastic granulate LDPE MFI 0.7		1,55		RT	RT	604	0,604
plastic granulate LDPE MFI 2.0		1,6		RT	RT	619	0,619
plastic granulate MB		2,7		RT	RT	1254	1,254
plastic granulate MDPE TVK FA 381-10		1,5		RT	RT	625	0,625
plastic granulate PA 6.6		1,8		RT	RT	671	0,671
plastic granulate PE HD		1,5		RT	RT	551	0,551
plastic granulate PE LD		1,5		RT	RT	559	0,559
plastic granulate PVC farbig Korn 5-7 mm		1,6		RT	RT	646	0,646
plastic granulate Ultramid		2		RT	RT	704	0,704
plastic powder			1,5	20	68		
plastic powder (Elan) 1		1,7		RT	RT	695	0,695
plastic powder (Elan) 2		1,7		RT	RT	703	0,703
plastic powder PVC		1,45		RT	RT	550	0,55
plastic product "P"			1,6	20	68		
plastisol			4,3	20	68		
Platinclair			1,7	20	68		
p-nitroaniline	<chem>C6H4NO2NH2</chem>		56,3	20	68		
p-nitrotoluol	<chem>C6H4NO2CH3</chem>		22,2	20	68		
polimero (silicate)		1,6		RT	RT	482	0,482
polyamine, granulate			2	20	68		
polyester resin			5,1	20	68		
polyester resin			1,9	20	68		
polyester resin 1% moisture			6,6	20	68		
polyethylene			1,4	20	68		
polyethylene A - S			1,15	20	68		
polyethylene chippings, natural			1,2	20	68		
polyethylene film chippings, coloured			1,2	20	68		
polyethylene, powder			1,53	20	68		
polymethylmethacrylate			3,1	20	68		
polypropylene			1,55	20	68		
polyrol			2,8	20	68		
polysterol granulate			1,7	20	68		
polyvinyl acetal			2,8	20	68		

RT = room temperature

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
polyviol			2,8	20	68		
polywax 3000			1,9	20	68		
popcorn			1,17	20	68		
popcorn		1,07		RT	RT	32	0,032
poppy meal			1,31	20	68		
pork meal (SM6)			3,3	20	68		
pork meal (SMO)			3,1	20	68		
Porss Charartiers 143			2,4	20	68		
Porss Elerages 103			2,73	20	68		
potash			2,6	20	68		
potash 50%			2	20	68		
potash 60%			2,03	20	68		
potassium carbonate		2,5		RT	RT		
potassium hydroxide, flakes	KOH		3,3	20	68		
potassium hyperphosphate			13,16	20	68		
potato, mashed (Pfanni puree)			2,38	20	68		
preserve			2,4	20	68		
Pril			1,16	20	68		
printing black			4,6	20	68		
propandiol dinitrate	C ₃ H ₆ O ₆ N ₂		26,8	20	68		
propandiol dinitrate	C ₃ H ₆ O ₆ N ₂		18,97	20	68		
propane	C ₃ H ₈		1,61		32		
propanetriol trinitrate	C ₃ H ₅ O ₉ N ₃		19,25	20	68		
propanetriol, triacetate	C ₉ H ₁₄ O ₆		7,19	20	68		
propanol	C ₃ H ₈ O		23,3	-7	19,4		
propanol	C ₃ H ₈ O		23,1	5	41		
propanol	C ₃ H ₈ O		20,75	20	68		
propanol	C ₃ H ₈ O		19,7	25	77		
propanol	C ₃ H ₈ O		16,6	48	118,4		
propanone (-2)	C ₃ H ₆ O		20,47	25	77		
propanone (-2)	C ₃ H ₆ O		16,98	50	122		
propanone (-2)	C ₃ H ₆ O		16,86	30	86		
propanone (-2)	C ₃ H ₆ O		16,47	40	104		
propen-1-ol	C ₃ H ₆ O		21,6	15	59		
propen-1-ol	C ₃ H ₆ O		20,6	21	69,8		
propenal	C ₃ H ₄ O (C ₃ H ₅ O****?)		14,4	15	59		
Propiofon 590 D			42	20	68		
propionaldehyde	C ₃ H ₆ O		14,4	15	59		
propionic acid	C ₃ H ₆ O ₂		3,15	17	62,6		
propionic anhydride	C ₆ H ₁₀ O ₃		18,3	16	60,8		
propionitrile	C ₃ H ₅ N		27,7	20	68		
propyl acetate	C ₅ H ₁₀ O ₂		2,42	-80,9	-113,62		
propyl acetate	C ₅ H ₁₀ O ₂		5,73	19	66,2		
propyl acetate	C ₅ H ₁₀ O ₂		2,42	-80,9	-113,62		
propyl acetate	C ₅ H ₁₀ O ₂		5,73	19	66,2		
propyl alcohol	CH ₃ -CH ₂ -CH ₂ OH		2,22	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
propyl anilin	C ₉ H ₁₃ N		5,48	20	68		
propyl benzene	C ₉ H ₁₂		2,372	20	68		
propyl benzene	C ₉ H ₁₂		2,351	30	86		
propyl bromide	C ₃ H ₇ Br		8,09	25	77		
propyl butyrate	C ₇ H ₁₄ O ₂		4,3	20	68		
propyl butyrate	C ₇ H ₁₄ O ₂		4,3	20	68		
propyl chloride	C ₃ H ₇ Cl		8,13	20	68		
propyl cyanide	C ₄ H ₇ N		20,3	21	69,8		
propyl ether	C ₆ H ₁₄ O		3,394	25,7	78,26		
propyl formate	C ₄ H ₈ O ₂		2,39	-79,5	-111,1		
propyl formate	C ₄ H ₈ O ₂		7,72	19	66,2		
propyl formate	C ₄ H ₈ O ₂		9,02	23,1	73,58		
propyl formate	C ₃ H ₇ CHO		7,7	20	68		
propyl formate	C ₄ H ₈ O ₂		2,39	-79,5	-111,1		
propyl formate	C ₄ H ₈ O ₂		7,72	19	66,2		
propyl formate	C ₄ H ₈ O ₂		9,02	23,1	73,58		
propyl iodide	C ₃ H ₇ I		7	20	68		
propyl nitrate	C ₃ H ₇ O ₃ N		13,9	18	64,4		
propyl phosphonate	C ₆ H ₁₂ O ₂		4,7	20	68		
propyl propionate	C ₆ H ₁₂ O ₂		4,7	20	68		
propyl valerat	C ₈ H ₁₆ O ₂		4	19	66,2		
propyl valerate	C ₈ H ₁₆ O ₂		4	19	66,2		
propylamine	C ₆ H ₁₅ N		3,068	20	68		
propylamine	C ₆ H ₁₅ N		2,9	22	71,6		
propylamine	C ₃ H ₉ N		5,31	20	68		
propylene glycol	C ₃ H ₈ O ₂		29,46	20	68		
propylene glycol	C ₃ H ₈ O ₂		29,46	20	68		
propylene, liquid	C ₃ H ₆		1,85	20	68		
PSA, pure			18	130...150	266...302		
PSA, raw			21,5	130...150	266...302		
Pseidonon			10	20	68		
p-toluidine	C ₇ H ₉ N		5,07	50	122		
p-toluidine	C ₇ H ₉ N		4,88	58	136,4		
p-tolyldiethylphosphonate	C ₁₁ H ₁₇ O ₃ P		11,18	30	86		
pulegone	C ₁₀ H ₁₆ O		9,5	19	66,2		
pulp, cellulose		1,2		RT	RT	102	0,102
PVC			1,448	20	68		
PVC dust			1,7	20	68		
PVC plasticising agent			5	20	68		
PVC powder			2	20	68		
PVC powder			1,8	20	68		
PVC powder			1,6	20	68		
PVC powder			1,7	20	68		
PVC powder			1,3	20	68		
PVC powder			1,15	20	68		
PVC powder			1,5	20	68		
PVC powder		1,5		RT	RT	824	0,824

RT = room temperature

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
PVC powder		1,5		RT	RT	102	0,102
PVC powder (Vinoflex)			1,5	20	68		
PVC powder A			1,9	20	68		
PVC powder N			1,5	20	68		
PVC pwder, pure			1,3	20	68		
p-xylene	C ₈ H ₁₀		2,23	13,2	55,76		
p-xylene	C ₈ H ₁₀		2,269	20	68		
p-xylene	C ₈ H ₁₀		2,259	25	77		
p-xylene	C ₈ H ₁₀		2,25	30	86		
p-xylol	C ₈ H ₁₀		2,27	20	68		
p-xylol	C ₈ H ₁₀		2,259	25	77		
p-xylol	C ₈ H ₁₀		2,25	30	86		
pycritite			33,6	20	68		
pyrazine	C ₄ H ₄ N ₂		2,8	50	122		
pyridine	C ₅ H ₅ N		13,23	20	68		
pyridine	C ₅ H ₅ N		12,3	25	77		
pytrole	C ₄ H ₅ N		8	20	68		
pytrole	C ₄ H ₅ N		8,315	25	77		

Q

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
quartz powder			1,5	20	68		
quartz powder "Sipur" 0...0.12 mm			1,79	20	68		
quartz powder "Sipur" 0...0.2 mm			1,83	20	68		
quartz rock powder			2,67	20	68		
quartz sand			2,6	20	68		
quartz sand MZK after sifting		1,8		RT	RT	992	0,992
quartz sand, new West German sand		2,3		RT	RT	1523	1,523
quartz sand, used furnace 2		2		RT	RT	1266	1,266
quartz silver sand Type HA 40			2,56	20	68		
quartz silver sand Type HA 40			2,5	20	68		
quicklime			2	20	68		
quinoline	C ₉ H ₇ N		8,8	20	68		
quinoline	C ₉ H ₇ N		9,22	25	77		

R

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
rape (16 % moisture)			21	20	68		
rape, dried			3,33	20	68		
rape, grist			2,08	20	68		
raw tar with 4.1 % moisture)			5,5	20	68		
refined sugar			2,06	20	68		
reflective beads, 0.2% moisture			1,25	20	68		
reflective beads, 1% moisture			1,27	20	68		
reflective beads, 2% moisture			1,33	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
reflective beads, 3% moisture			1,5	20	68		
resin			1,5	20	68		
resin			30	20	68		
resin, carbonised			1,3	20	68		
resin, leguval			5,33	20	68		
resin, natural		2,2		RT	RT	653	0,653
resin, polyester "Atlas", +C2480 Pechiney			2,3	20	68		
resin, technical purity			24,5	20	68		
rice			5,1	20	68		
rice, long grained		3,2		RT	RT	826	0,826
rich coal			3,4	20	68		
ricinoleic acid isobutyl ester	C ₂₂ H ₄₂ O ₃		4,7	21	69,8		
ride		3,01		RT	RT	771	0,771
roasted malt			26	20	68		
rock salt 0-25 mm			4,3	20	68		
rodent feed			2,3	20	68		
Rohmantan wax 0.5 - 2 mm			2	20	68		
rough-cast glass mixture			3,1	20	68		
rubber			2,2	20	68		
rubber filling with 2.5 % moisture			1,35	20	68		
rubber filling with 7.5 % moisture			2,04	20	68		
rye		6		RT	RT		
rye bran			2,2	20	68		

S

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
saccharose solution 16.5%			21,9	20	68		
saccharose solution 47%			19,75	20	68		
saccharose solution 51.3%			18,75	20	68		
saflol	C ₁₀ H ₁₀ O ₂		3,06	20	68		
salamita, seasoning			2,8	20	68		
salicyl aldehyde	C ₇ H ₆ O ₂		18,9	20	68		
salicyl aldehyde	C ₇ H ₆ O ₂		17,91	30	86		
salicyl aldehyde	C ₇ H ₆ O ₂		16,374	40	104		
Salol, phenyl salicylate	C ₁₃ H ₁₀ O ₃		6,4	42	107,6		
salt coating			7,5	20	68		
salt water			32	20	68		
salt, marine salt, for aquariums		2,4		RT	RT	1223	1,223
sand slurry			32,6	20	68		
sand, moulding			23,7	20	68		
sand, moulding, dry			22	20	68		
sand, silver			2,8	20	68		
Santovex			1,7	20	68		
satin white			22,5	20	68		
sawdust		1,3		RT	RT	169	0,169
seed, mustard			3,56	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
selenium	Se		5,44	237,5	459,5		
shavings-dust, dry			1,3	20	68		
shavings-dust, moist			2	20	68		
Silex			2,06	20	68		
siliceous sinter (calcareous sediment)			7,5	20	68		
siliceous sinter with 10 % Fe chippings (calcareous sinter)			9	20	68		
silicic acid	SiO ₂		12	20	68		
silicic acid	SiO ₂	1,25		RT	RT		
silicolloid			2,1	20	68		
silicon carbide (120+f)			7	20	68		
silicon carbide (8+f)			12	20	68		
silicon tetrachloride	SiCl ₄		2,4	16	60,8		
silicone oil	C ₁₃₄ H ₄₀₂ O ₆₀ Si ₆₇		2,72	20	68		
silicone rubber			2,88	20	68		
silicus		1,1		RT	RT	102	0,102
Sillitin N			3,28	20	68		
Silteg			2,2	20	68		
skim milk, powder			2,25	20	68		
skim milk, powder (roller process)			1,83	20	68		
skim milk, powder (tower process)			1,63	20	68		
skin cream			19	20	68		
skin cream			19	20	68		
slate flour			2,62	20	68		
slate flour			7,83	20	68		
sludge, pyrites			30	20	68		
soap, flakes			9,15	20	68		
soap, liquid			23,4	90	194		
soap, pelleted		3,5		RT	RT	735	0,735
soap, raw materials			24	90	194		
soap, soft			32	20	68		
soda	Na ₂ CO ₃	5,6		RT	RT		
soda	Na ₂ CO ₃	4,6		RT	RT		
soda (BASF)	Na ₂ CO ₃	5,1		RT	RT		
sodium carbonate, calc,	Na ₂ CO ₃		3	25	77		
sodium hydroxide	NaOH		25,8	20	68		
sodium hydroxide	NaOH		22,5	20	68		
sodium methylate	NaOCH ₃		1,5	20	68		
sodium perborate	NaBO ₂		2,2	20	68		
sodium perborate	NaBO ₂		3,5	20	68		
sodium peroxide	Na ₂ O ₂		2,66	20	68		
sodium silicofluoride			2,72	20	68		
sodium sulphate calc.	Na ₂ SO ₃		2,7	25	77		
sodium tripolyphosphate			4,7	25	77		
Sofix			25	20	68		
soft soap			32	20	68		
Solbo			21,16	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
soligen zink			1,45	150	302		
solvent			18	20	68		
solvent, pure			4,97	20	68		
soot	C		18,8	20	68		
sorbit	C ₆ H ₁₄ O ₆		35,5	80	176		
sorbit	C ₆ H ₁₄ O ₆		20	20	68		
sorbit solution, 50%			18,5	20	68		
sorbit solution, 50%			21	100	212		
sorbo			21,16	20	68		
soya coarse meal (19 % moisture)			18	20	68		
soya coarse meal (dry)			2,93	20	68		
soya flour			4,5	20	68		
spices, mustard			24	20	68		
S-PVC		1,4		RT	RT	509	0,509
Stabifix Super 1,6 K306 ready-to-use		2		RT	RT		
stabiliser 17 Mol			6,7	20	68		
Stabiquick		3,1		RT	RT		
stannic tetrachloride	SnCl ₄		2,89	20	68		
stannic tetrachloride	SnCl ₄		3,2	22	71,6		
starch, potato (Aeromyl 33)		1,7		RT	RT	163	0,163
Statyla 121 L			5,77	20	68		
stearate (2458 a)			1,05	20	68		
stearate (2458 b)			1,4	20	68		
stearate (2458 c)			1,12	20	68		
stearic acid	C ₁₈ H ₃₆ O ₂		2,29	20	68		
stearic acid	C ₁₈ H ₃₆ O ₂		2,224	74,5	166,1		
stearic acid	C ₁₈ H ₃₆ O ₂		2,26	100	212		
stearic acid (2-methoxy ethyl ester)	C ₂₁ H ₄₂ O ₃		3,387	50	122		
styrol	C ₂ H ₃ C ₆ H ₅ /C ₈ H ₈		2,431	25	77		
styrol	C ₂ H ₃ C ₆ H ₅ /C ₈ H ₈		2,321	75	167		
succinonitrile	C ₄ H ₄ N ₂		56,5	57,4	135,32		
succinonitrile	C ₄ H ₄ N ₂		53,6	67,7	153,86		
succinonitrile	C ₄ H ₄ N ₂		52,3	78,2	172,76		
sugar		1,8		RT	RT	926	0,926
sugar, crystal			2	20	68		
Sulan RZ			31,8	20	68		
Sulforrat LUB 859/MP 3764			2,8	20	68		
Sulfrin (hair care product)			33,3	20	68		
sulphate, fine			3,6	20	68		
sulphite, spent liquor			32	20	68		
sulphur	S		3,52	20	68		
sulphur chloride	S ₂ Cl ₂		4,79	15	59		
sulphur dioxide	H ₂ SO ₃		17,73	-21	-5,8		
sulphur dioxide	H ₂ SO ₃		15	0	32		
sulphur dioxide	H ₂ SO ₃		13,75	14,5	58,1		
sulphur dioxide	H ₂ SO ₃		14	20	68		
sulphur trioxide	SO ₃		3,11	18	64,4		

RT = room temperature

Nomenclature	formula	DK at 1 MHZ	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
sulphuric acid	H ₂ SO ₄		21,9	20	68		
sulphuric acid, 15%	H ₂ SO ₄		31	20	68		
sulphuric acid, 95 %	H ₂ SO ₄		8,3	20	68		
sulphuric acid, 96 %	H ₂ SO ₄		7,76	20	68		
sulphuric acid, 96 %	H ₂ SO ₄		5	20	68		
sulphuric acid, 97%	H ₂ SO ₄		8,64	20	68		
sulphuric acid, 98%	H ₂ SO ₄		7,18	20	68		
sulphuric acid, conc.	H ₂ SO ₄		3,5	21	69,8		
sulphuric acid, diethyl ester	C ₄ H ₁₀ O ₄ S		29,2	20	68		
sulphuryl chloride	SO ₂ Cl ₂		9,2	20	68		
sulphuryl chloride	SO ₂ Cl ₂		8,5	25	77		
sunflower expeller 3381			2,1	20	68		
sunflower seeds		1,95		RT	RT	382	0,382
sunflower seeds, 6 hours drying			2,1	20	68		
sunflower seeds, normal moisture			3,4	20	68		
Sunil (washing powder)			3,4	20	68		
Sunlicht washing powder			2,4	20	68		
Sylosiv S393		1,6		RT	RT	568	0,568
sym. trinitrobenzene	C ₆ H ₃ O ₆ N ₃		7,21	127	260,6		
synthetic resin			2,3	20	68		
synthetic resin			13,6	20	68		
syrup (Afri-Cola)			17,3	20	68		

T

Nomenclature	formula	DK at 1 MHZ	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
table salt I	NaCl		3,3	20	68		
table salt II	NaCl		3,5	20	68		
table wine			25	20	68		
talc			3,6	20	68		
talc		1,9		RT	RT	652	0,652
talcum powder			1,5	20	68		
tankage approx. 10% fat			2,2	20	68		
tapioca			2,7	20	68		
tapioca roots			2,56	20	68		
tar paste BT 80/125 with bitumen			4	20	68		
tar paste T 40/60, very thin			4,67	20	68		
tar paste Tv 49/51, very thick			4,33	70	158		
tar scrubber			2,9	20	68		
tar, crude			4	20	68		
tar, crude with 4.1% moisture			5,5	20	68		
tar, oil			3,75	30	86		
tar, oil			3,9	60	140		
tar, oil			3,95	80	176		
tar, oil			4,3	120	248		
tartaric acid	HOOC-CHOH-CHOH-COOH		35,9	20	68		
tea dust			2	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
tent impregnating agent			2,2	20	68		
terephthalic acid			1,5	20	68		
terpentine substitute			2	20	68		
terpinene	C ₁₀ H ₁₆		2,7	20	68		
terpinene	C ₁₀ H ₁₆		2,452	25	77		
terpinene	C ₁₀ H ₁₆		2,273	25	77		
terpineol	C ₁₀ H ₁₈ O		2,75	20	68		
terpinolene	C ₁₀ H ₁₆		2,291	25	77		
test material S2			1,4	20	68		
tetrabromoethane	C ₂ H ₂ Br ₄		5,6	20	68		
tetrabromoethane (1,1,2,2-)	C ₂ H ₂ Br ₄		6,7	20	68		
tetrachloroethane (1,1,2,2-)	C ₂ H ₂ Cl ₄		7,93	-40	-40		
tetrachloroethane (1,1,2,2-)	C ₂ H ₂ Cl ₄		14,5	-42	-43,6		
tetrachloroethane (1,1,2,2-)	C ₂ H ₂ Cl ₄		12,9	-30	-22		
tetrachloroethane (1,1,2,2-)	C ₂ H ₂ Cl ₄		8,15	16	60,8		
tetrachloroethane (1,1,2,2-)	C ₂ H ₂ Cl ₄		8,08	20	68		
tetrachloroethylene	C ₂ Cl ₄		2,2	20	68		
tetrachloroethylene	C ₂ Cl ₄		2,37	16	60,8		
tetrachloroethylene	C ₂ Cl ₄		2,5	20	68		
tetrachloroethylene	C ₂ Cl ₄		2,36	25	77		
tetrachloro-m-xylol	C ₈ H ₆ Cl ₄		5,4	20	68		
tetradecamethylcycloheptasiloxane	C ₁₄ H ₄₂ O ₇ Si ₇		2,68	20	68		
tetradecamethylcyclotetrasiloxane	(C ₂ H ₆ O _{Si}) ₄		2,68	20	68		
tetradecamethylhexasiloxane	C ₁₄ H ₄₂ O ₅ Si ₆		2,5	20	68		
tetradecamethylhexasiloxane	C ₆ H ₁₈ O _{Si} ₂ (CH ₃) ₃ Si [OSi(CH ₃) ₂] _n CH ₃		2,5	20	68		
tetradecane	C ₁₄ H ₃₀		2,04	20	68		
tetradecanol-(1)	C ₁₄ H ₃₀ O		4,71	40	104		
tetradecanol-(1)	C ₁₄ H ₃₀ O		4,42	50	122		
tetradecanol-(1)	C ₁₄ H ₃₀ O		3,69	80	176		
tetradecyl bromide	C ₁₄ H ₂₉ Br		3,84	25	77		
tetradecylamine	C ₁₄ H ₃₁ N		2,9	40	104		
tetradecyldiethyl phosphonate	C ₁₈ H ₃₈ O ₃ P		4,63	32	89,6		
tetraethyl methane	C ₉ H ₂₀		1,99	15,5	59,9		
tetraethyl methane	C ₉ H ₂₀		2	30	86		
tetraethyl silane	C ₅ H ₂₀ Si		2,09	20	68		
tetraethyl silicate	C ₈ H ₂₀ O ₄ Si		4,1	20	68		
tetrahydrofuran	C ₄ H ₈ O		7,58	20	68		
tetrahydrofuran	C ₄ H ₈ O		7,39	25	77		
tetrahydrofuran	C ₄ H ₈ O		7,25	30	86		
tetrahydrofuran	C ₄ H ₈ O		7,16	35	95		
tetrahydronaphthalene	C ₁₀ H ₁₂		2,66	20	68		
tetrahydronaphthalene	C ₁₀ H ₁₂		2,744	30	86		
tetrahydronaphthol-(2)	C ₁₀ H ₁₂ O		11,7	20	68		
tetrahydroxybutane	C ₄ H ₁₀ O ₄		28,2	120	248		
tetramethylene chloride	C ₄ H ₈ Cl ₂		8,9	25	77		
tetramethylpentanone-(3)	C ₉ H ₁₈ O		10	14,5	58,1		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
tetramethylsilane	C ₄ H ₁₂ Si		1,921	20	68		
tetramethylsilicate	C ₄ H ₁₂ O ₄ Si		6	20	68		
tetranitromethane	CO ₈ N ₄		2,317	20	68		
tetranitromethane	CO ₈ N ₄		2,521	25	77		
tetrasodium pyrophosphate			5,7	25	77		
tetratriacontadiene	C ₃₄ H ₆₆		2,82	25	77		
Texapon			18,6	20	68		
thermoplastic			1,15	20	68		
thioacetic acid	C ₂ H ₄ OS		12,8	20	68		
thionyl bromide	SOBr ₂		9,06	20	68		
thionyl chloride	SOCl ₂		9,25	20	68		
thionyl chloride	SOCl ₂		9,05	22	71,6		
thiophene	C ₄ H ₄ S		2,766	15	59		
thiophene	C ₄ H ₄ S		2,76	20	68		
thiophosphoryl chloride	PSCl ₃		5,8	20	68		
Thomas potassium dust, 5% moisture			27,6	20	68		
Thomas potassium dust, dry			3,4	20	68		
thujanon	C ₁₀ H ₁₆ O		10,8	0	32		
titanium chloride	TiCl ₄		2,8	20	68		
TM chips			3	20	68		
tobacco cord, loose			13,4	20	68		
tobacco cord, tight			16	20	68		
tobacco dust			1,8	25	77		
TOCP triorthocresolphosphate	C ₂₁ H ₂₁ O ₄ P		6,7	25	77		
TOCP triorthocresolphosphate	C ₂₁ H ₂₁ O ₄ P		6,9	40	104		
toluene	C ₆ H ₅ CH ₃		2,438	0	32		
toluene	C ₆ H ₅ CH ₃		2,385	20	68		
toluene	C ₆ H ₅ CH ₃		2,378	25	77		
toluene	C ₆ H ₅ CH ₃		2,364	30	86		
toluene	C ₆ H ₅ CH ₃		2,275	75	167		
toluene	C ₇ H ₈		2,3	20	68		
toluene, moist	C ₆ H ₅ CH ₃		2,5	20	68		
tolyl-2-methyl-propane	C ₁₁ H ₁₆		2,33	20	68		
tolyl-2-methyl-propane	C ₁₁ H ₁₆		2,313	30	86		
tolyl-2-methyl-propane	C ₁₁ H ₁₆		2,25	20	68		
tolyl-2-methyl-propane	C ₁₁ H ₁₆		2,234	30	86		
Tonsil 13			7,4	20	68		
Tonsil L 80 with 0.5 % water			1,3	20	68		
Tonsil L 80 with 1.8 % water			1,5	20	68		
Tonsil L 80 with 10.8 % water			5	20	68		
Tonsil Optimum			3,8	20	68		
toothpaste, Blendax			24	20	68		
toothpaste, Lacalut			33	20	68		
toothpaste, Lacalut			18,3	20	68		
toothpaste, Pepsodent			18,3	20	68		
toothpaste, Signal			18,33	20	68		
totanin solution			2,3	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
trans-diiodo ethylene	$C_2H_2I_2$		3,19	77	170,6		
transformer oil			2,1	20	68		
trans-hexene-(3)	C_6H_{12}		1,954	20	68		
trans-hexene-(3)	C_6H_{12}		2	25	77		
trans-octene-(3)	C_8H_{16}		2,002	25	77		
trans-octene-(4)	C_8H_{16}		2,004	25	77		
TRI			3,16	20	68		
Triacetin	$C_9H_{14}O_6$		7,19	20	68		
Triacetin 3859			4,2	20	68		
tribromopropane	$C_3H_5Br_3$		6,45	20	68		
tributylphosphate	$C_{12}H_{27}O_4P$		7,96	30	86		
trichlor-2,2-di-(4-chlorphenyl)-ethane	$C_{14}H_9Cl_5$		2,9	104	219,2		
trichlor-2,2-di-(4-chlorphenyl)-ethane	$C_{14}H_9Cl_5$		2,381	145	293		
trichloroacetaldehyde	C_2HCl_3O		5,044	14,5	58,1		
trichloroacetaldehyde	C_2HCl_3O		6,67	20	68		
trichloroacetate anhydride	$C_4Cl_6O_3$		5	25	77		
trichloroacetonitrile	C_2Cl_3N		7,85	19	66,2		
trichlorobenzene	$C_6H_3Cl_3$		3,98	20	68		
trichlorobenzene	$C_6H_3Cl_3$		3,945	25	77		
trichlorobutyraldehyde	$C_4H_5Cl_3O$		10	18	64,4		
trichloroethane	$C_2H_3Cl_3$		7,2	20	68		
trichloroethane	$C_2H_3Cl_3$		7,29	20	68		
trichloroethylene	C_2HCl_3		3,4	20	68		
trichlorohememellitene	$C_9H_9Cl_3$		8,6	20	68		
trichloropseudocumol	$C_9H_9Cl_3$		6,4	20	68		
trichlorotoluene	$C_7H_5Cl_3$		6,29	25	77		
trichlorotoluene(a,a,a-)	$C_7H_5Cl_3$		6,9	21	69,8		
trichlorotoluene(a,a,a-)	$C_7H_5Cl_3$		9,18	30	86		
trichlorotoluene(a,a,a-)	$C_7H_5Cl_3$		8,09	60	140		
trichlorotrifluoroethane	$CCl_2F_2-CCl_2F$		1,68	20	68		
Trichlor-propan	$C_3H_5Cl_3$		7,5	20	68		
trichloroacetic acid	$C_2HCl_3O_2$		4,55	61	141,8		
trichloroethylene acetate	$C_4H_5Cl_3O_2$		7,8	20	68		
Tricosal 181			2,27	20	68		
Tricosal D			2,56	20	68		
tricosanol-(12)	$C_{23}H_{46}O$		2,1	20	68		
tricosanol-(12)	$C_{23}H_{46}O$		4,05	80	176		
Tridecan	$C_{13}H_{28}$		2,026	20	68		
tridecylbromide	$C_{13}H_{27}Br$		4,19	8	46,4		
tridecylbromide	$C_{13}H_{27}Br$		4,18	12,7	54,86		
triethyl benzene	$C_{12}H_{18}$		2,256	20	68		
triethyl benzene	$C_{12}H_{19}$		2,243	30	86		
triethylaluminium	$Al(C_2H_5)_3$		2,9	20	68		
triethylaluminium	$C_6H_{15}Al$		2,9	20	68		
triethylamine	$C_6H_{15}N$		2,425	20	68		
triethylamine	$C_6H_{15}N$		2,42	25	77		
triethylcarbinol	$C_7H_{16}O$		3,16	20	68		

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
triethylsilane	C ₆ H ₁₀ Si		2,323	20	68		
trifluoromethane	CCl ₃ F		193	20	68		
trifluoroacetic acid	C ₂ HF ₃ O ₂		8,42	20	68		
trifluoroacetic acid	C ₂ HF ₃ O ₃		8,2	25	77		
trifluoroacetic anhydride	C ₄ F ₅ O ₃		2,7	25	77		
trifluoromethylcyclohexane	C ₇ H ₁₁ F ₃		11,9	-85	-121		
trifluorotoluene	C ₇ H ₅ F ₃		9,18	30	86		
trifluorotoluene	C ₇ H ₅ F ₄		8,09	60	140		
trilon			1,8	20	68		
trimethy-benzene	C ₉ H ₁₂		2,636	20	68		
trimethy-benzene	C ₉ H ₁₂		2,378	20	68		
trimethy-benzene	C ₉ H ₁₂		2,359	30	86		
trimethy-benzene	C ₉ H ₁₂ / C ₆ H ₃ (CH ₃) ₃		2,27	20	68		
trimethyl benzene	C ₉ H ₁₂		2,378	20	68		
trimethyl benzene	C ₉ H ₁₂		2,359	30	86		
trimethyl borate	C ₃ H ₉ O ₃ B		8	20	68		
trimethylamine	C ₃ H ₉ N		2,57	0	32		
trimethylamine	C ₃ H ₉ N		2,95	4	39,2		
trimethylamine	C ₃ H ₉ N		2,496	16	60,8		
trimethylamine	C ₃ H ₉ N		2,44	25	77		
trimethylbenzene	C ₉ H ₁₂		2,636	20	68		
Trimethyl-butane	C ₇ H ₁₆		1,93	20	68		
trimethylchinon			3	20	68		
trimethylene glycol	C ₃ H ₈ O ₂		35	20	68		
trimethylene glycol	C ₃ H ₈ O ₂		35	20	68		
trimethylheptene-(3)	C ₁₀ H ₂₀		2,293	20	68		
trimethylpentane	C ₈ H ₁₈		1,96	20	68		
trimethylpentane	C ₈ H ₁₈		1,943	20	68		
trimethylpentane	C ₈ H ₁₈		1,978	20	68		
trimethylpentane	C ₈ H ₁₈		1,973	20	68		
trimethylpentene(4)	C ₈ H ₁₆		2,09	25	77		
tri-n-propylamine	C ₉ H ₂₁ N		2,277	20	68		
triolein	C ₅₇ H ₁₀₄ O ₆		3,2	25	77		
tripalmitin	C ₅₁ H ₉₈ O ₆		2,9	55	131		
tripalmitin	C ₅₁ H ₉₈ O ₆		2,927	60	140		
tripalmitin	C ₅₁ H ₉₈ O ₆		2,895	70	158		
tripalmitin	C ₅₁ H ₉₈ O ₆		2,954	80	176		
tripalmitin	C ₅₁ H ₉₈ O ₆		2,924	120	248		
tri-perfluorobutylamine	C ₁₂ F ₂₇ N		2,15	20	68		
triphenylmethane	(C ₆ H ₅) ₃ CH		2,45	20	68		
triphenylmethane	(C ₆ H ₅) ₃ CH		2,46	94	201,2		
tristearin	C ₅₇ H ₁₁₀ O ₆		2,785	70	158		
tristearin	C ₅₇ H ₁₁₀ O ₆		2,751	80	176		
trotin			5	20	68		
tufofusin B			22	20	68		
tufofusin B			20,5	110	230		
tufofusin LC			23	20	68		

U

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
Ultralan, clean oil			1,9	20	68		
Ultrasil			1,4	20	68		
undecane	C ₁₁ H ₂₄		2,004	20	68		
undecanone-(2)	C ₁₁ H ₂₂ O		8,3	12,1	53,78		
undecanone-(2)	C ₁₁ H ₂₂ O		8,4	14,5	58,1		
undecyl bromide	C ₁₁ H ₂₃ Br		4,74	-0,3	31,46		
undecyl bromide	C ₁₁ H ₂₃ Br		4,63	-3,3	26,06		
undecyl bromide	C ₁₁ H ₂₃ Br		4,61	-0,6	30,92		
urea	N ₂ H ₄	2,9		RT	RT		
Urecol B 3635			25	20	68		
urethane	C ₃ H ₇ NO ₂		14,2	20	68		

V

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
valeraldehyde	C ₅ H ₁₀ O		11,76	15	59		
valeric acid	C ₅ H ₁₀ O ₂		2,67	20	68		
valeric acid	C ₅ H ₁₀ O ₂		2,67	20	68		
vanadium tetrachloride	VC _l 4		3,05	25	77		
vanadium tribromide oxide	VOBr ₃		4,4	-70	-94		
vanadium tribromide oxide	VOBr ₃		3,6	25	77		
vanadium trichloride oxide	VOCl ₃		3,4	25	77		
vaselin oil			1,6	20	68		
veratrol	C ₈ H ₁₀ O ₂		4,5	23	73,4		
vinoxflex (PVC powder)			1,5	20	68		
vinyl cartsazol			1,5	20	68		
vinyl ether	C ₄ H ₆ O		3,94	20	68		
vinyl-ethyl-benzene	C ₁₀ H ₁₂		3,35	25	77		
viscose			34,5	20	68		
Voll-Sprüh, milk powder, dry			2	20	68		

W

Nomenclature	formula	DK at 1 MHz	DK 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
wash (pig feed)			3,9	20	68		
wasil			32,8	20	68		
water	H ₂ O		22	25	77		
water	H ₂ O		20,4	120	248		
water	H ₂ O		80,3	20	68		
water	H ₂ O		78,54	25	77		
water	H ₂ O		34,5	200	392		
water	H ₂ O		10,1	364	687,2		
water glass			16	20	68		
water glass binder			40,3	20	68		
water, demineralised	H ₂ O		29,3	20	68		
water, heavy	D ₂ O		78,25	25	77		

Nomenclature	formula	DK at 1 MHz	DK 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
water, heavy (99.95%)	D ₂ O		78,25	25	77		
wax			1,8	20	68		
waxy candles			1,8	30	86		
wheat		6,2		RT	RT		
wheat A			5,66	20	68		
wheat B			4	20	68		
wheat bran		1,69		RT	RT	244	0,244
wheat bran		1,5		RT	RT	203	0,203
wheat bran 3381			2,6	20	68		
wheat gluten		1,9		RT	RT	587	0,587
wheat starch		2,5		RT	RT	573	0,573
wheel swarf, fine		1,6		RT	RT		
wheel swarf, medial		1,5		RT	RT		
wheel swarf, surfacing		1,5		RT	RT		
white lime		1,5		RT	RT	536	0,536
white lime, loose		1,38		RT	RT	366	0,366
white lime, sifted		1,61		RT	RT	537	0,537
Wisprofloc			3,71	20	68		
wood chippings, wood moist			2,3	20	68		
wood pulp dust			1,53	20	68		
wood shavings, coarse and compact		1,4		RT	RT	120	0,12
wood shavings, coarse and loose		1,1		RT	RT	46	0,046
wood shavings, dry			1,2	20	68		
wood shavings, dry			1,3	20	68		
wood shavings, dry			1,2	20	68		
wood shavings, fine and compact		1,3		RT	RT	137	0,137
wood shavings, fine and loose		1,1		RT	RT	50	0,05
wood shavings, moist			1,6	20	68		
wood shavings, moist			2	20	68		
wood shavings, moist			1,6	20	68		
wood ships			1,13	20	68		

X

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
xylid			2,3	20	68		
xylidine	C ₈ H ₁₁ N		4,9	20	68		
xylitol	C ₅ H ₁₂ O ₅		40	20	68		
xylol	C ₈ H ₁₀		2,3	20	68		

Y

Nomenclature	formula	DK at 1 MHz	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
yeast, dried			2	20	68		

Z

Nomenclature	formula	DK at 1 MHZ	DK at 100 kHz	temp. °C	temp. °F	material density [g/l]	material density SGU
zink oxide	ZnO ₂		1,5	20	68		
zink oxide	ZnO ₂		2,3	20	68		
zink, powder		4,4		RT	RT	2196	2,196
zink, soligen			1,45	150	302		

09.03/MMC

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